

Final Environmental Impact Statement for the Sigurd to Red Butte No. 2 345kV Transmission Project

DOI-BLM-UT-C010-2009-0048-EIS

Case File: UTU 83067



Color Country



October 2012

Volume II of III
Maps



U.S. Department of the Interior Bureau of Land Management

Final Environmental Impact Statement for the Sigurd to Red Butte No. 2 – 345kV Transmission Project

DOI-BLM-UT-C010-2009-0048-EIS
Case File: UTU 83067

Volume II of III

Color Country District
Cedar City Field Office
176 East D.L. Sargent Drive
Cedar City, Utah 84721

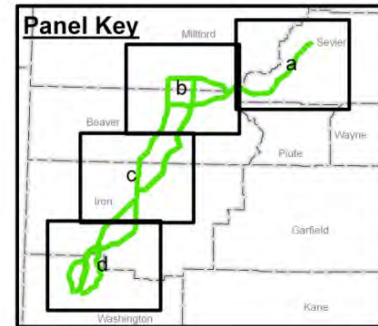
Cooperating Agencies
U.S. Forest Service (Dixie and Fishlake National Forests)
U.S. Army Corps of Engineers
National Park Service
Utah Governor's Public Land Policy Coordination Office
Utah School and Institutional Trust Lands Administration
Counties: Beaver, Iron, Millard, Sevier, and Washington
Communities: Enterprise and St. George

October 2012

ABOUT THE MAP VOLUME

This map volume (MV) accompanies the Final Environmental Impact Statement (EIS) for the Sigurd to Red Butte No. 2 – 345-kilvolt (kV) Transmission Project (Project), a proposed transmission line from the existing Sigurd Substation in Sevier County, Utah, to the existing Red Butte Substation in Washington County, Utah.

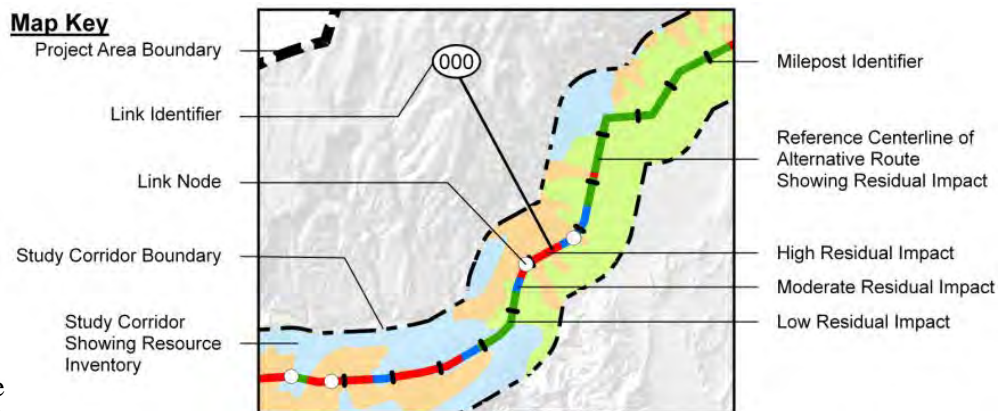
The map volume contains (1) a map showing construction access levels and (2) 15 maps showing resource inventory and impacts. Each map is divided into four panels illustrating four portions of the Project area. The north-easternmost panel (Panel a) illustrates the alternative route from Sigurd Substation to Cove Fort area. Panel b illustrates the alternative routes from the Cove Fort area to the Milford and Minersville area. Panel c illustrates the alternative routes from the Minersville area to the Antelope Range. Panel d illustrates the alternative routes from the Antelope Range to the Red Butte Substation.



Every map includes the same base information such as place and feature names, major highways and roads, and existing linear facilities (e.g., transmission lines and pipelines). Each map also includes certain basic Project information such as the alternative routes and substations.

The alternative routes are delineated on the maps and show the reference centerline, centered in the route corridor. Each route is divided into distinct segments referred to as links, which are numbered generally from northeast to southwest. It should be noted data are documented in a geographic information system (GIS) for every tenth mile and often reported in tables supporting the text in the EIS in tenths of a mile. However, for legibility, each link is marked on the maps at every mile; the markers are referred to as mileposts.

The width of the study corridor inventoried varies depending on the resource being addressed. Earth, water, biological, paleontological, and land use and recreation resources were inventoried within a 2-mile-wide study corridor (1 mile



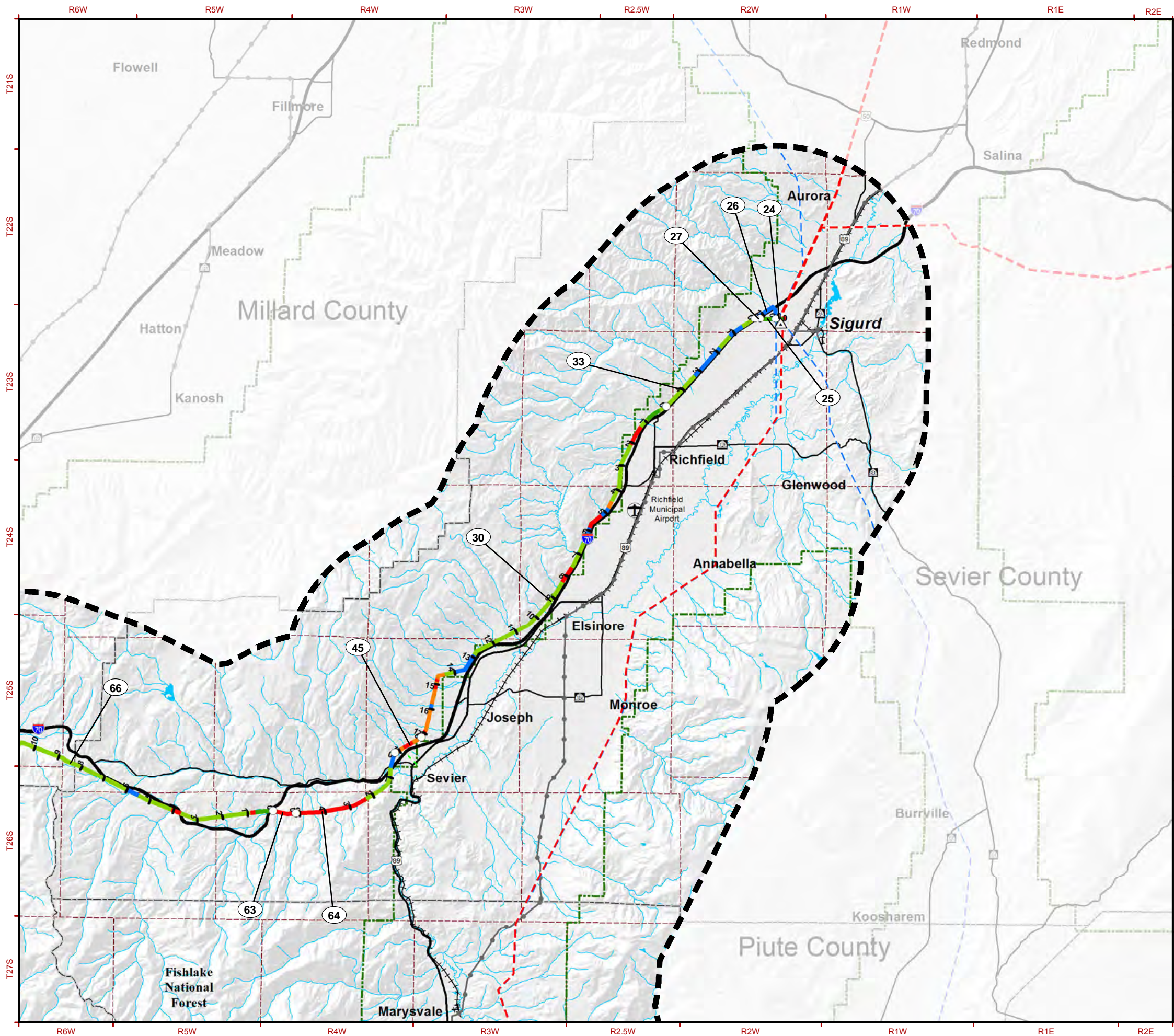
on either side of the reference centerline). Cultural resources were inventoried within a 4-mile-wide study corridor (2 miles on either side of the reference centerline). Visual resources were inventoried within a 6-mile-wide study corridor (3 miles on either side of the reference centerline). The inventoried baseline data are shown in the study corridor and impacts are shown along the reference centerline.

Each map consolidates and illustrates a variety of different information, and each legend explains the information unique to each map.

List of Maps

MV-1	Construction Access Levels
MV-2	Geological Hazards Inventory and Impacts
MV-3	Mineral Resources Inventory and Impacts
MV-4	Soil Resources Inventory and Impacts
MV-5	Water Resources Inventory and Impacts
MV-6	Vegetation Inventory and Impacts
MV-7	Sensitive Habitats Inventory and Impacts
MV-8	Crucial Big Game Inventory and Impacts
MV-9	Paleontological Resources Inventory and Sensitivity
MV-10	Landscape Scenery Inventory and Impacts
MV-11	Moderate Sensitivity Viewers Inventory and Impacts
MV-12	High Sensitivity Viewers Inventory and Impacts
MV-13	Visual Resource Management Objectives Inventory and Consistency
MV-14	Existing Land Use Inventory and Impacts
MV-15	Future Land Use Inventory and Impacts
MV-16	Recreation Resources Inventory and Impacts

Access Levels



MAP MV - 1a
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

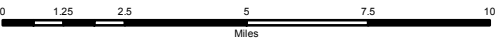
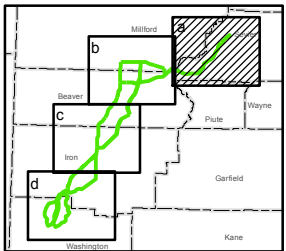
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- Project Study Area
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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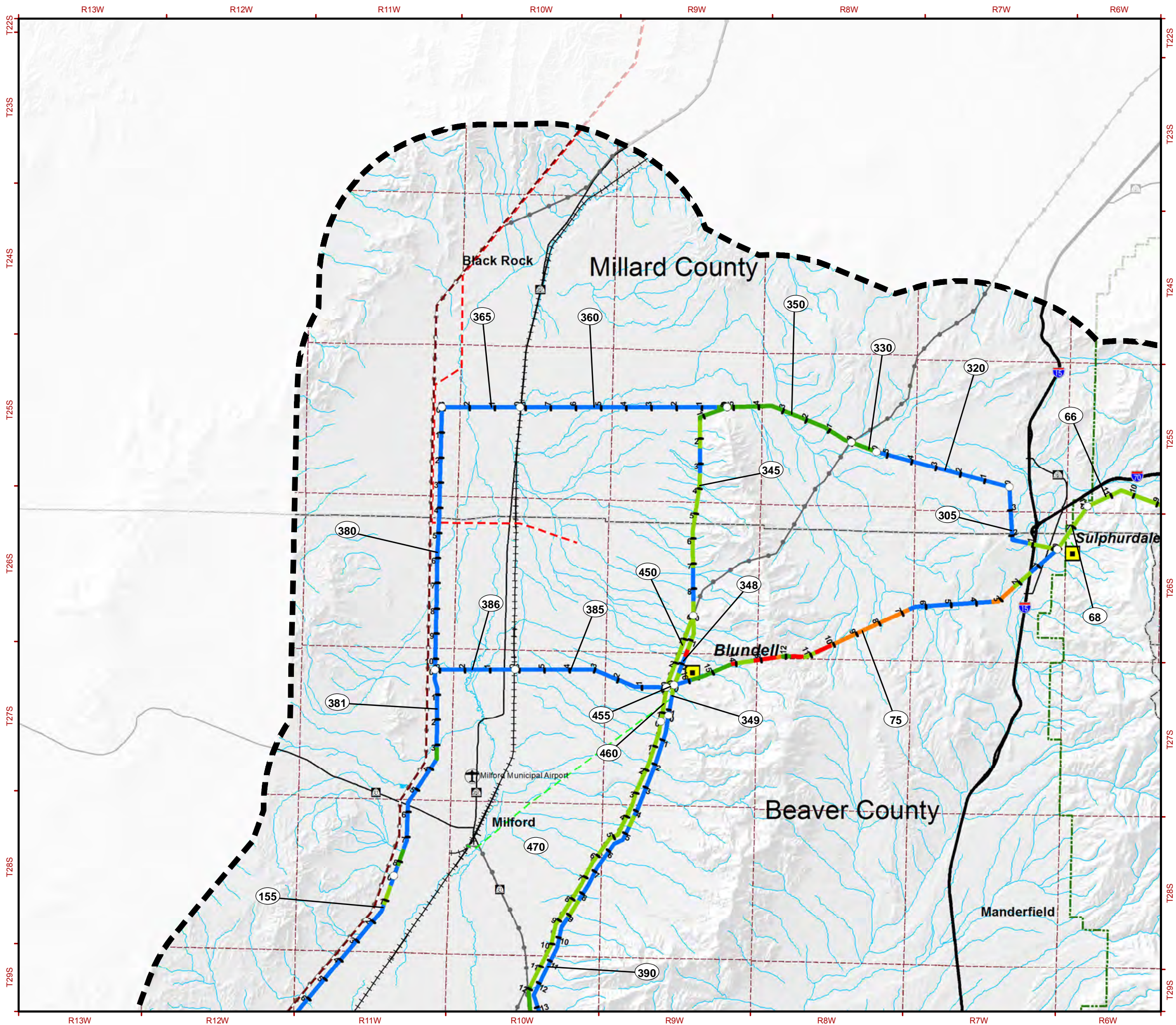


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 1b
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

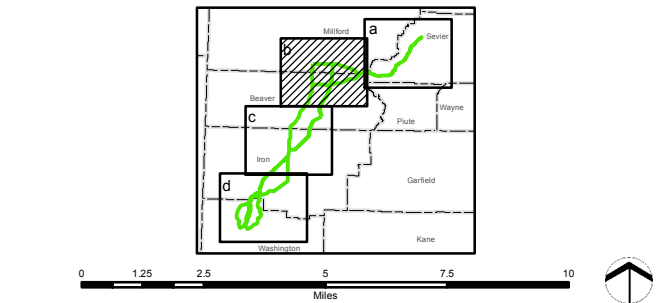
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- | | |
|--------------------------------|------------------------------|
| Project Study Area | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | State Highway |
| Substation | Railroad |
| 500kV +/- DC Transmission Line | Airport |
| 345kV Transmission Line | River or Stream |
| 230 to 287kV Transmission Line | Lake or Reservoir |
| 138 to 161kV Transmission Line | |
| Pipeline | |

SOURCES:

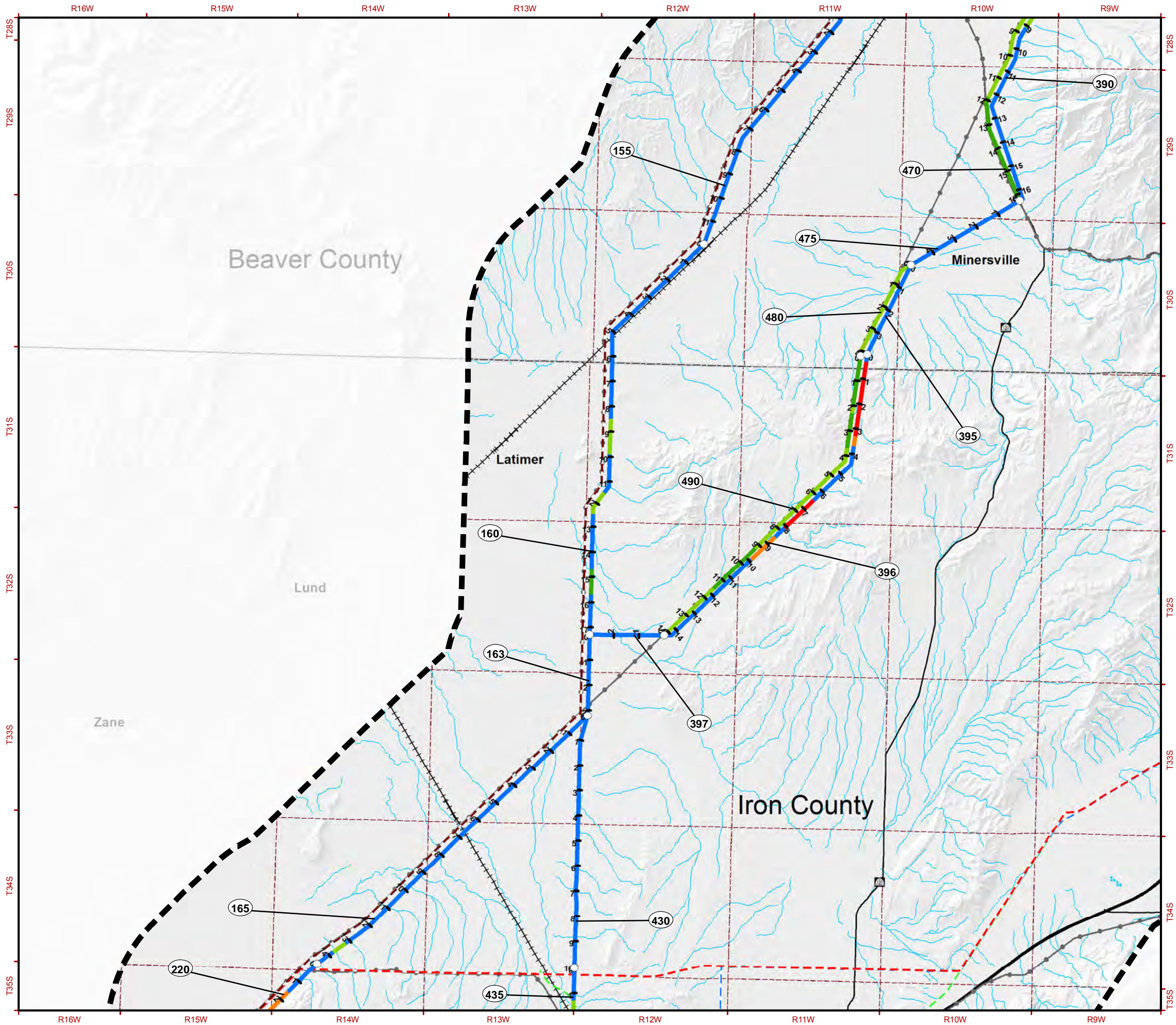
Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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MAP MV - 1c
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

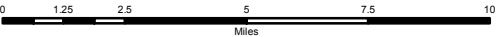
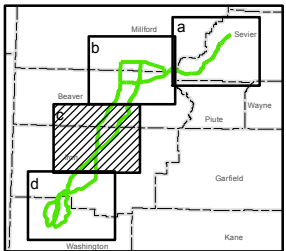
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- Project Study Area
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
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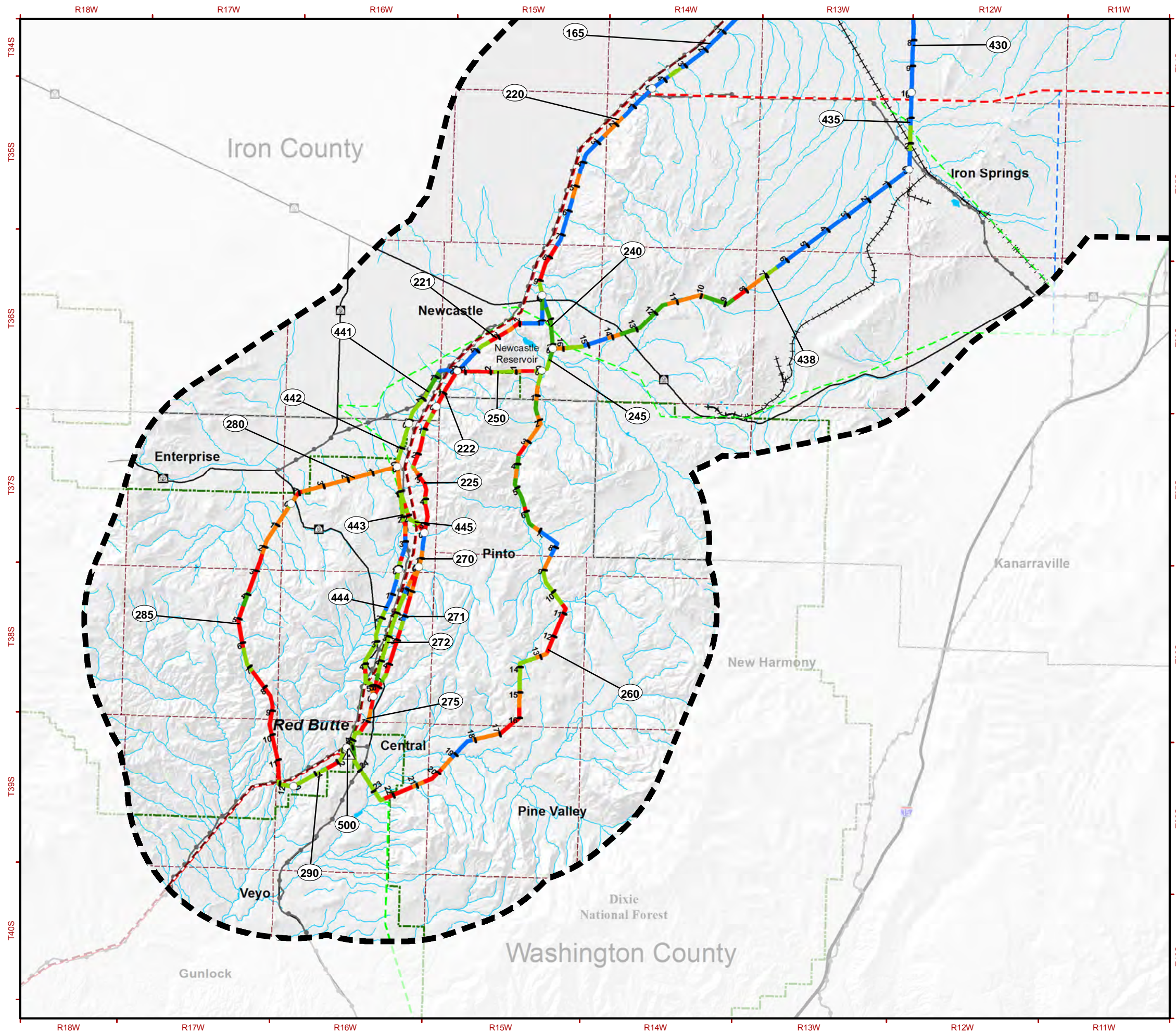


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MAP MV – 1d
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

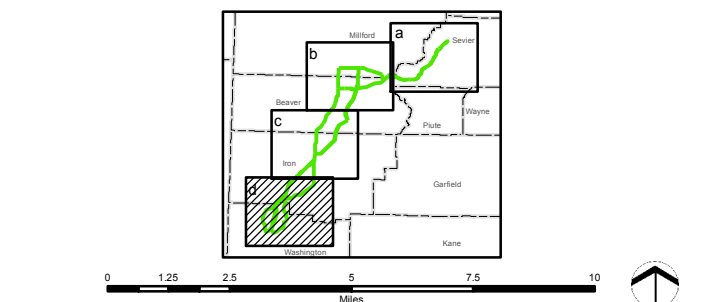
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- Project Study Area
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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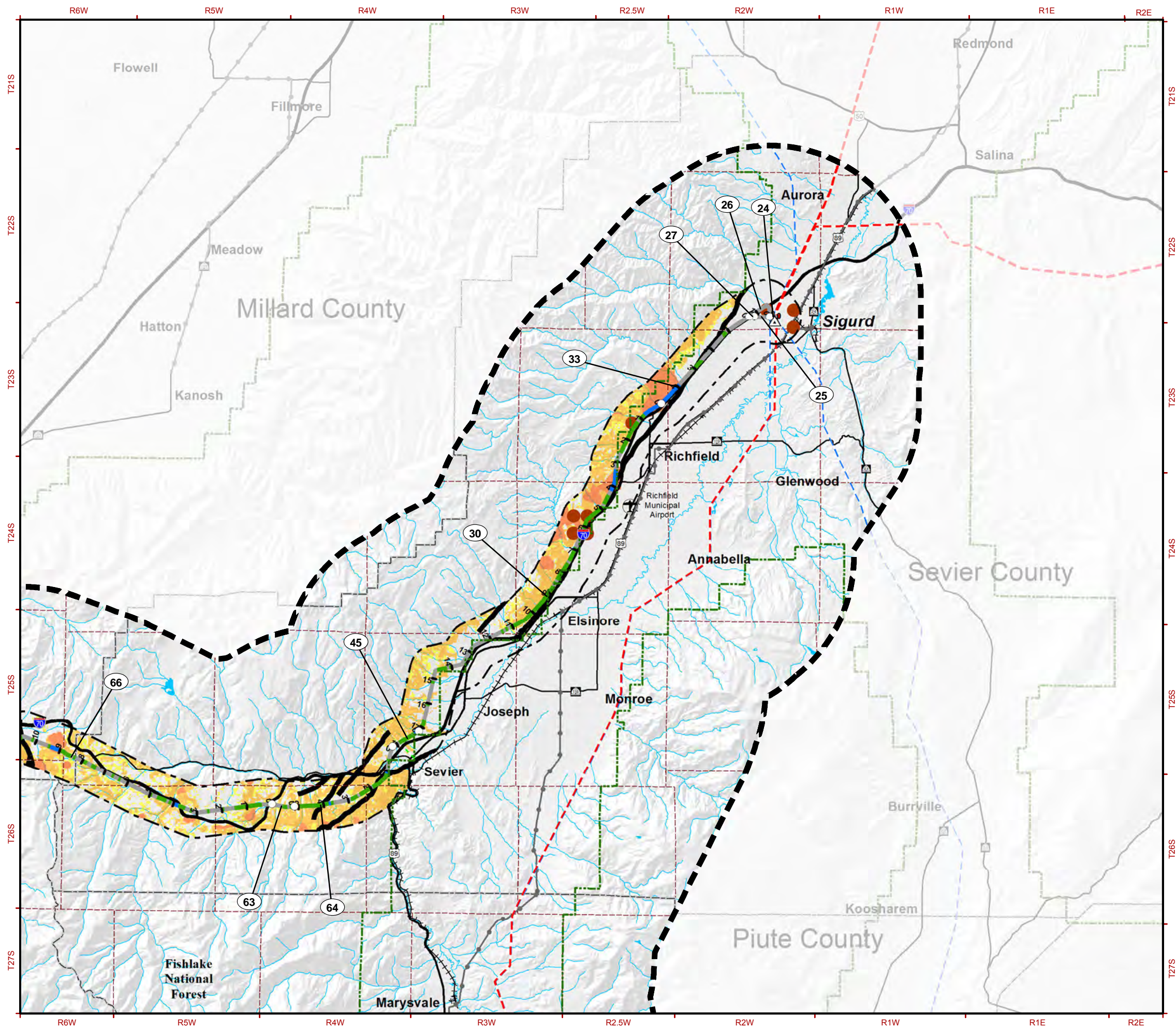
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Earth Resources



MAP MV – 2a GEOLOGIC HAZARDS INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

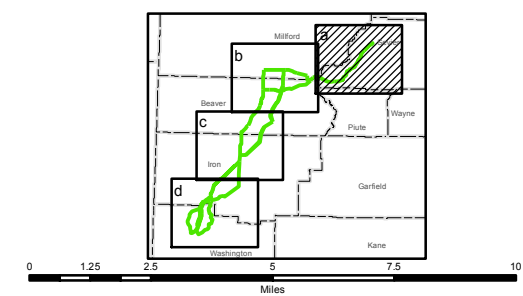
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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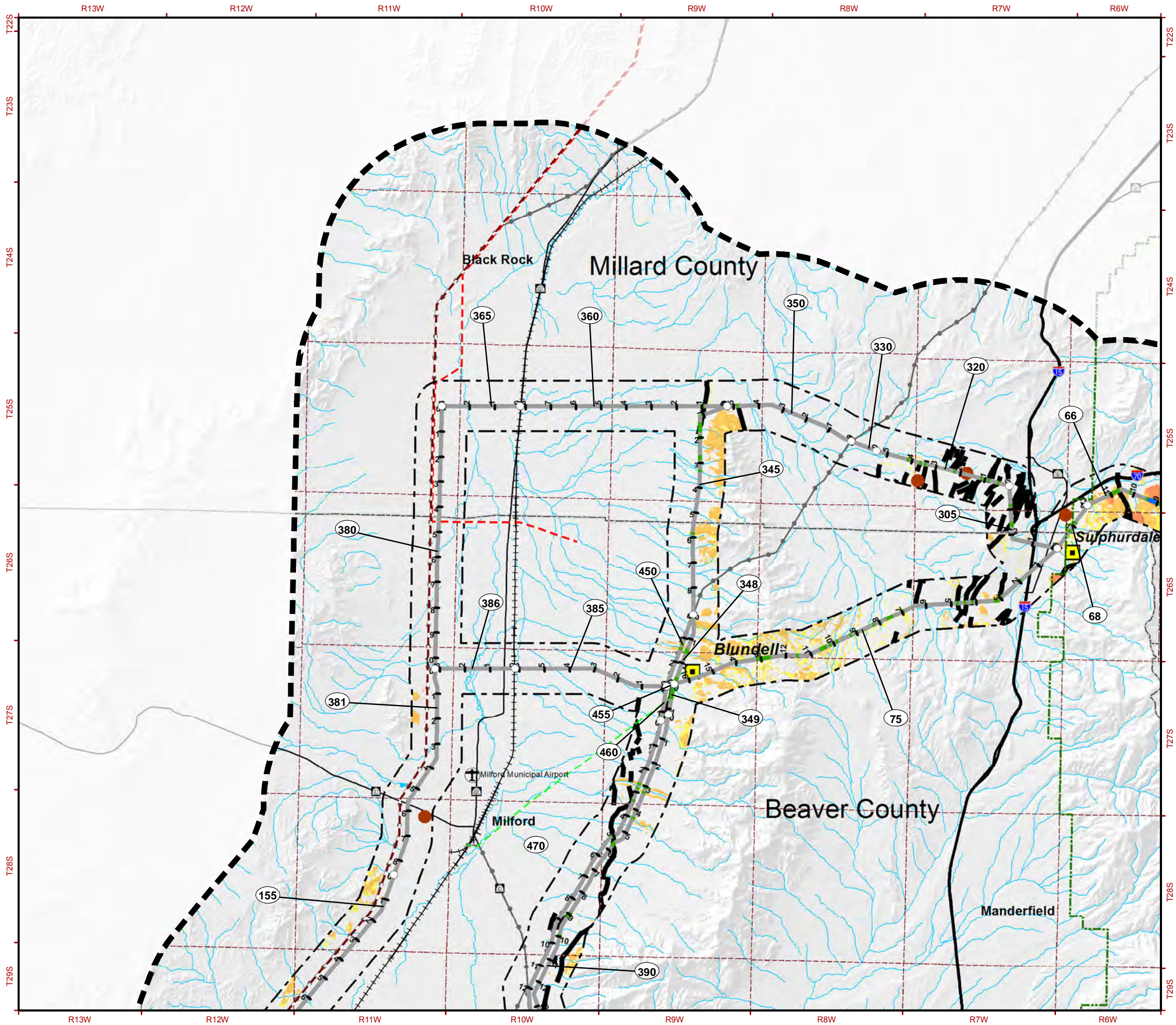


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MAP MV – 2b
GEOLOGIC HAZARDS
INVENTORY AND IMPACTS

RESOURCE INVENTORY
FAULTS
— Quaternary Fault
EARTHQUAKE EPICENTERS
● Earthquake Epicenters
LANDSLIDE SUSCEPTIBILITY
■ Low
■ Moderate
■ High

IMPACT LEVELS
High
Moderate
Low
Not Identifiable

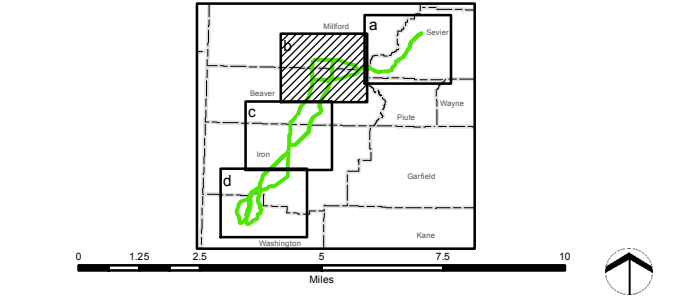
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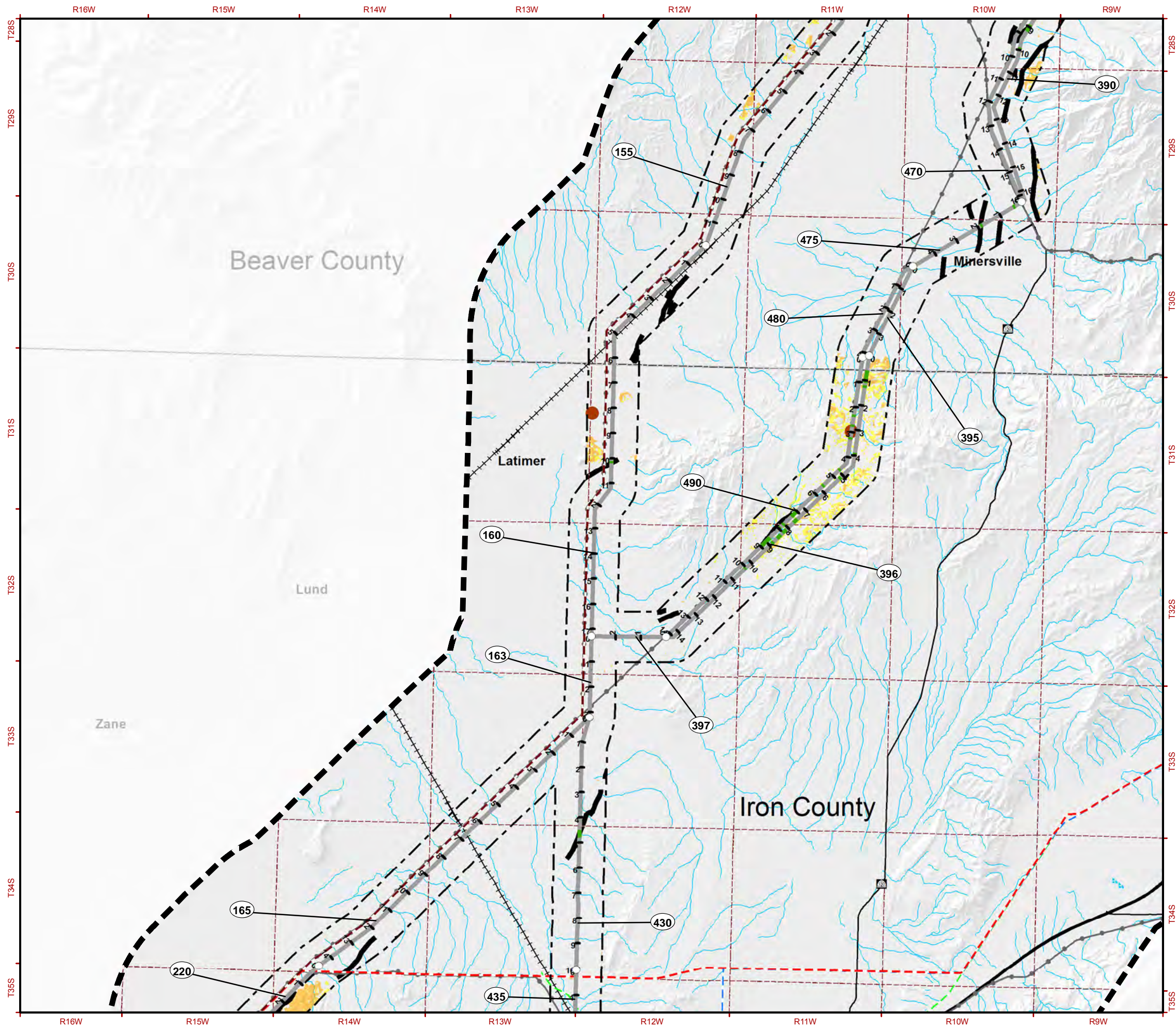
GENERAL REFERENCE FEATURES

■ Project Study Area
▭ Study Corridor
● Link Number
— Mile Tick
— Centerline
○ Link Node
■ Power Plant
△ Substation
— 500kV +/- DC Transmission Line
— 345kV Transmission Line
— 230 to 287kV Transmission Line
— 138 to 161kV Transmission Line
— Pipeline

▭ County Boundary
▭ U.S. Forest Service Boundary
▭ Township Line
— Interstate Highway
— U.S. Highway
— State Highway
— Railroad
✈ Airport
— River or Stream
— Lake or Reservoir

SOURCES:
Resource Data:
Impact: EPG, 2010
Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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MAP MV - 2c
GEOLOGIC HAZARDS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

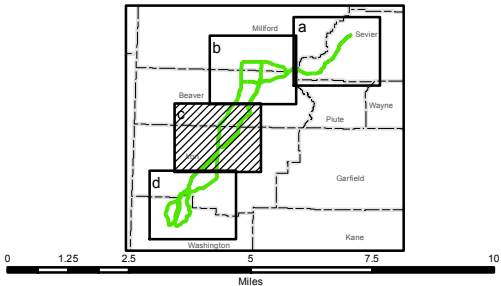
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area
Study Corridor
Link Number
Mile Tick
Centerline
Link Node
Power Plant
Substation
500kV +/- DC Transmission Line
345kV Transmission Line
230 to 287kV Transmission Line
138 to 161kV Transmission Line
Pipeline
County Boundary
U.S. Forest Service Boundary
Township Line
Interstate Highway
U.S. Highway
State Highway
Railroad
Airport
River or Stream
Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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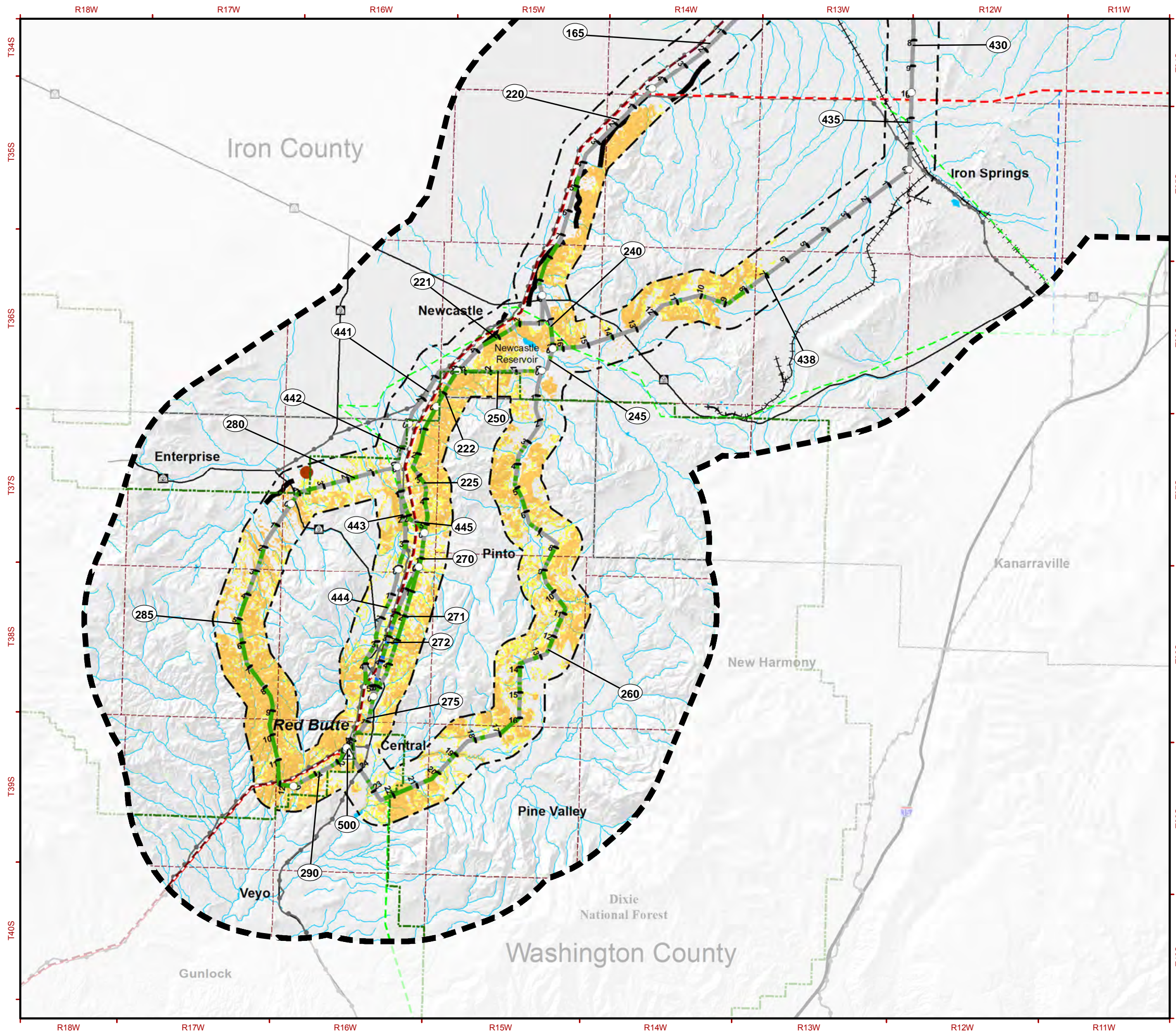


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MAP MV - 2d GEOLOGIC HAZARDS INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area
Study Corridor
Link Number
Mile Tick
Centerline
Link Node
Power Plant
Substation
500kV +/- DC Transmission Line
345kV Transmission Line
230 to 287kV Transmission Line
138 to 161kV Transmission Line
Pipeline
County Boundary
U.S. Forest Service Boundary
Township Line
Interstate Highway
U.S. Highway
State Highway
Railroad
Airport
River or Stream
Lake or Reservoir

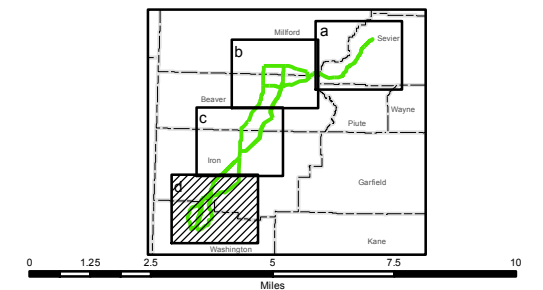
SOURCES:

Resource Data:

Impact: EPG, 2010
Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: USGS, 2007

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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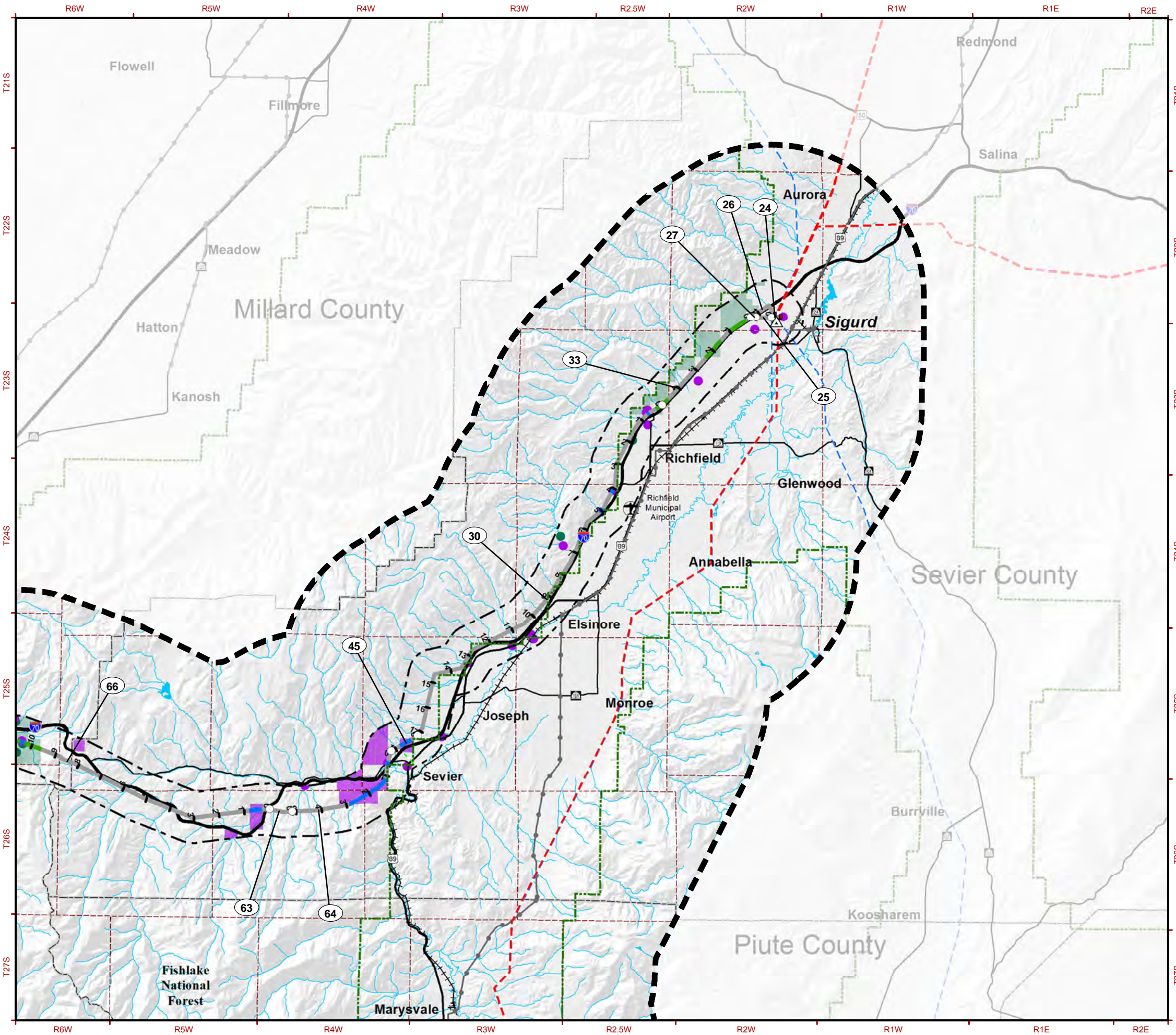
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Path: Q:\SRB\FEIS\Apps\FEIS_2_Apps\FEIS_SRB_Earth_Geologic_Hazards.mxd



MAP MV – 3a
MINERAL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

- Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims

Moderate Mineral Resources

- Geothermal, Oil Gas Leases
- Authorized, Geothermal Agreements Authorized, Geothermal Leases Producing, Oil Gas Leases Authorized

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

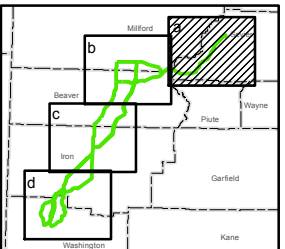
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GENERAL REFERENCE FEATURES

- Project Study Area
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- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

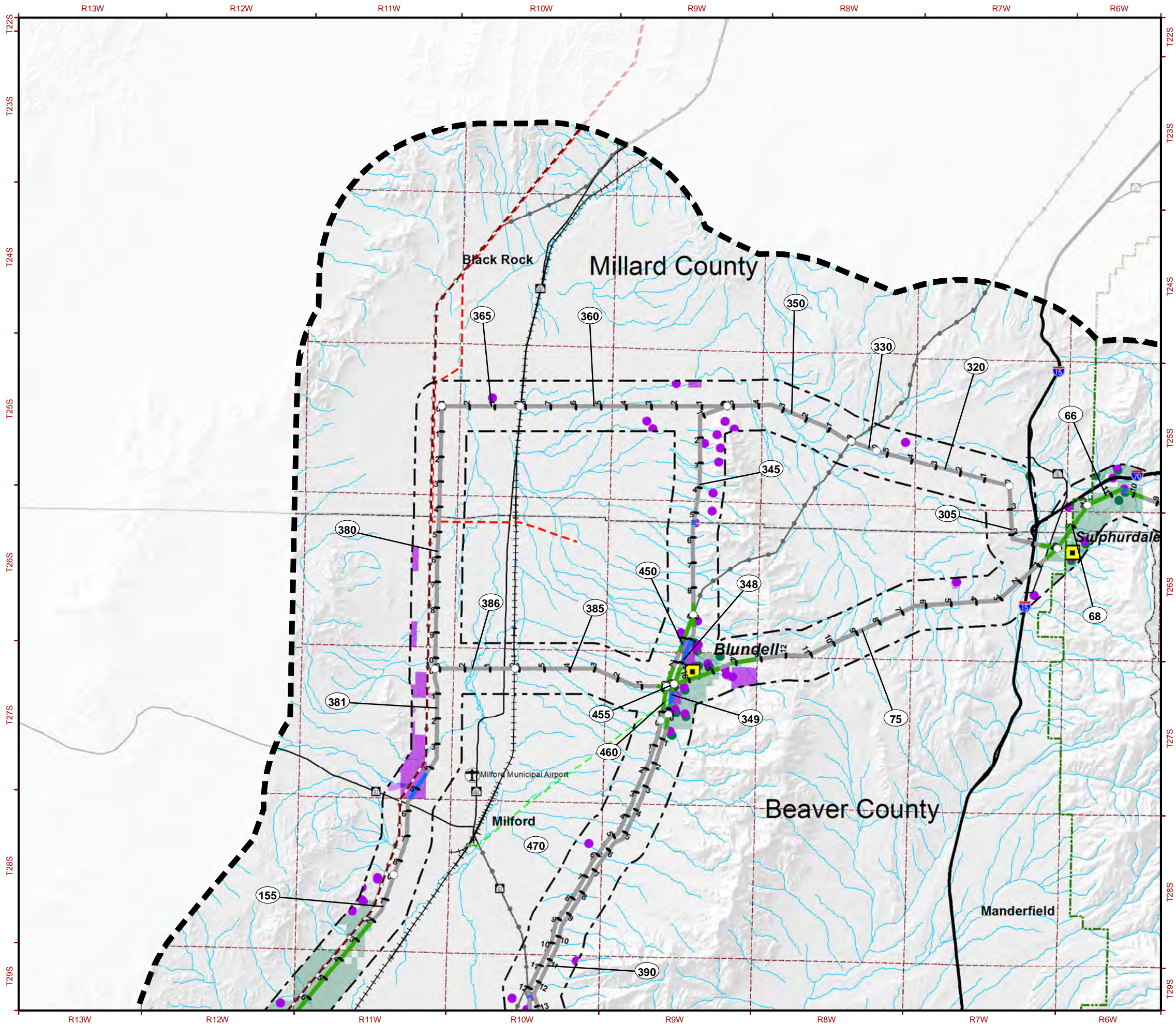
Resource Data:
Impact: EPG, 2010
Geothermal Resources: UGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2006
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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MAP MV – 3b
MINERAL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

- Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims

Moderate Mineral Resources

- Geothermal, Oil Gas Leases
- Authorized, Geothermal Agreements Authorized, Geothermal Leases Producing, Oil Gas Leases Authorized

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

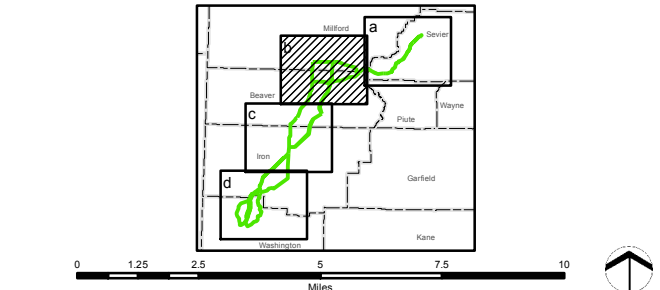
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
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- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

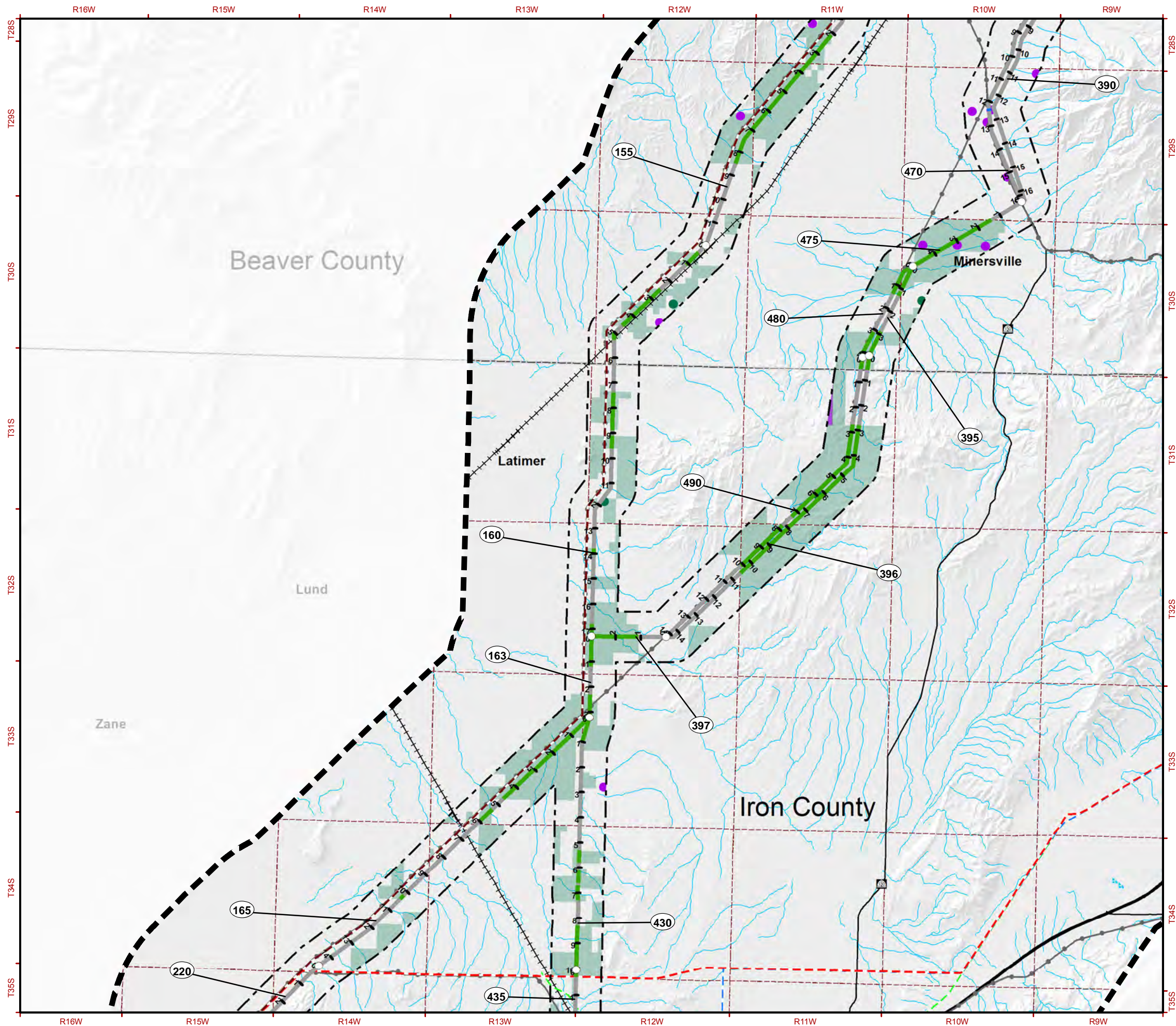
Resource Data:
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Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2006
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
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MAP MV - 3c MINERAL RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

- Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims

Moderate Mineral Resources

- Geothermal, Oil Gas Leases
- Authorized, Geothermal Agreements Authorized, Geothermal Leases Producing, Oil Gas Leases Authorized

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

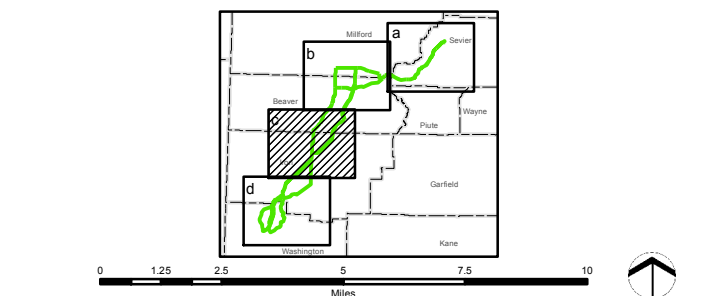
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

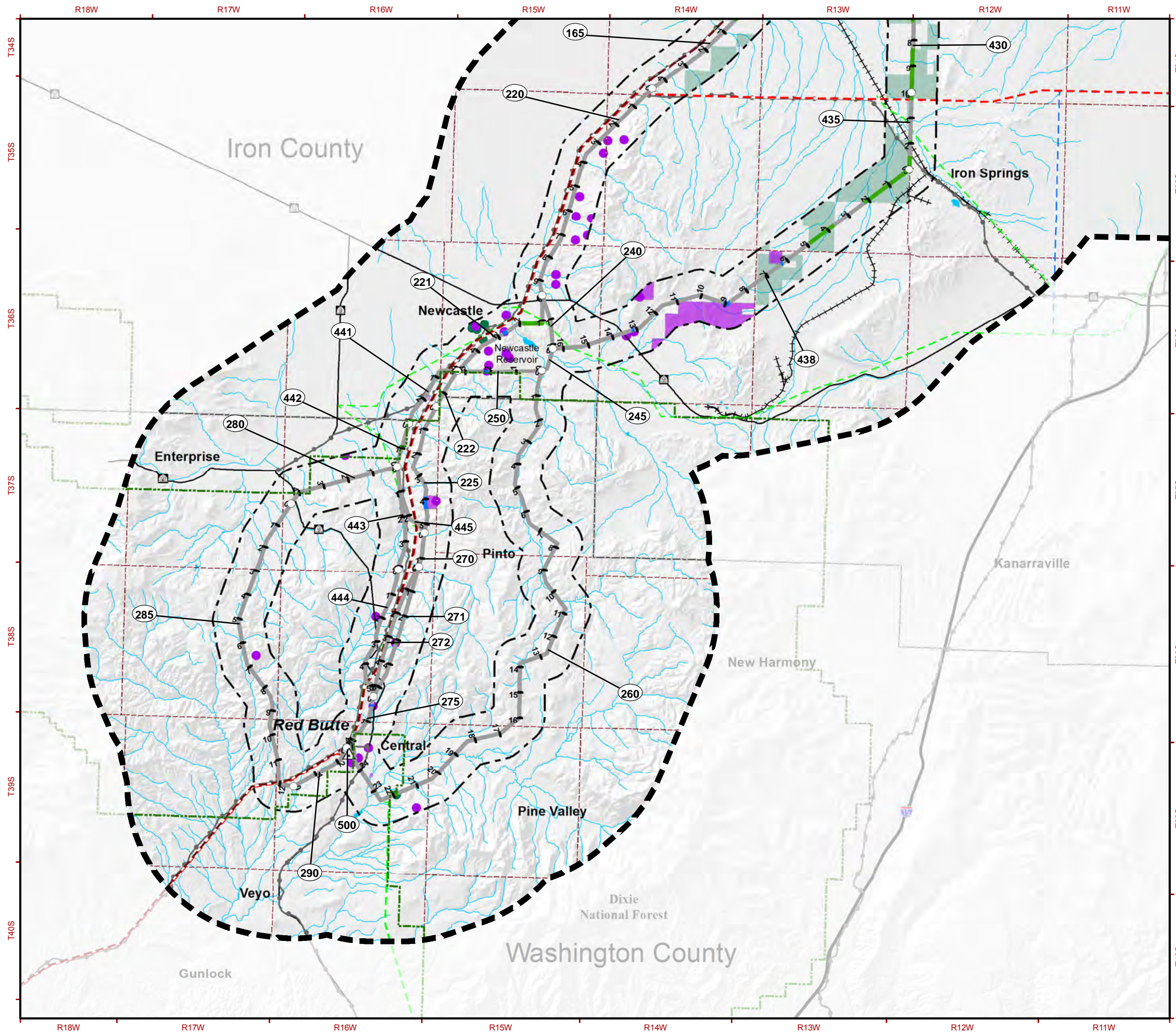
Resource Data:
Impact: EPG, 2010
Geothermal Resources: UGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2006
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT





MAP MV - 3d MINERAL RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

Oil Gas Wells, Minerals,
CRIB Mineral Locations,
Active Mining Claims

Moderate Mineral Resources

Geothermal, Oil Gas Leases
Authorized, Geothermal
Agreements Authorized,
Geothermal Leases Producing,
Oil Gas Leases Authorized

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

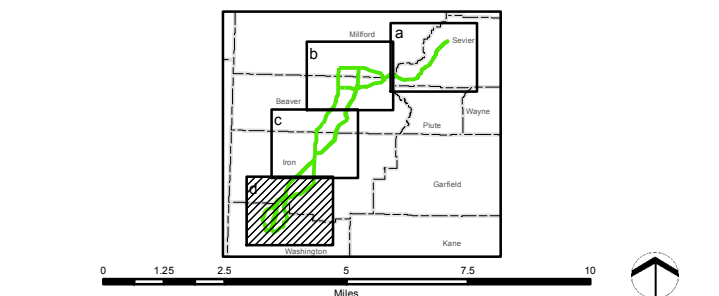
Note: Impact levels shown represent
impacts remaining (residual) after
the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Geothermal Resources: UGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2006
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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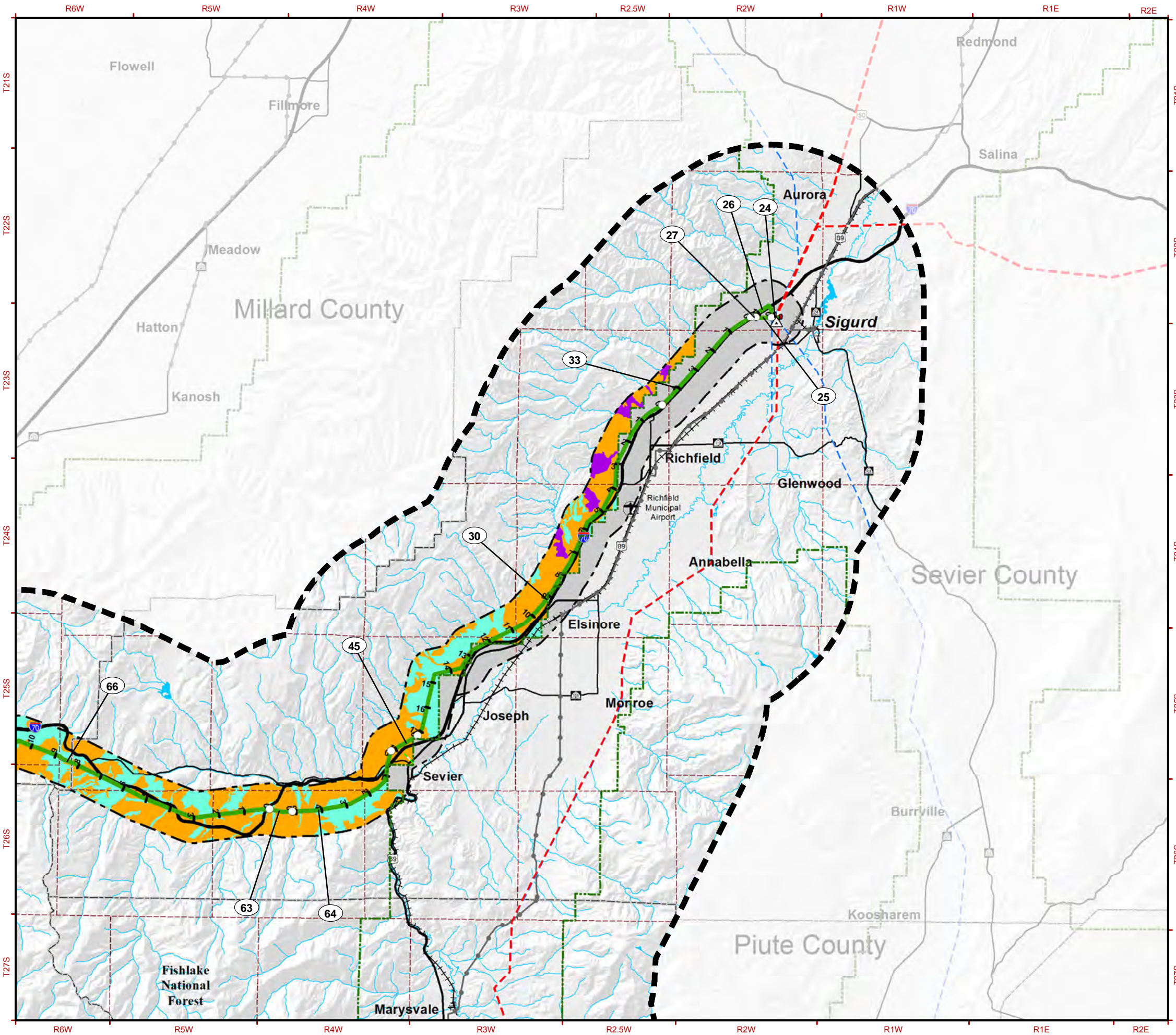


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MAP MV – 4a SOIL RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY
SOIL CHARACTERISTICS

- Prime Farmland
- Not Prime Farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

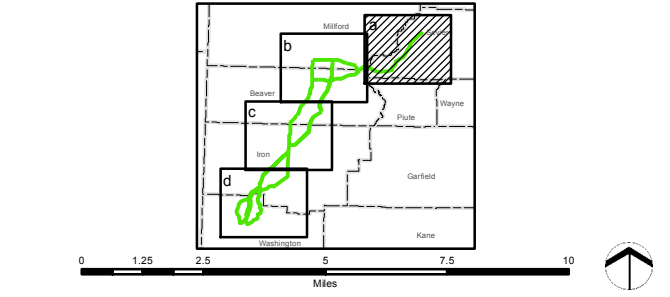
- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

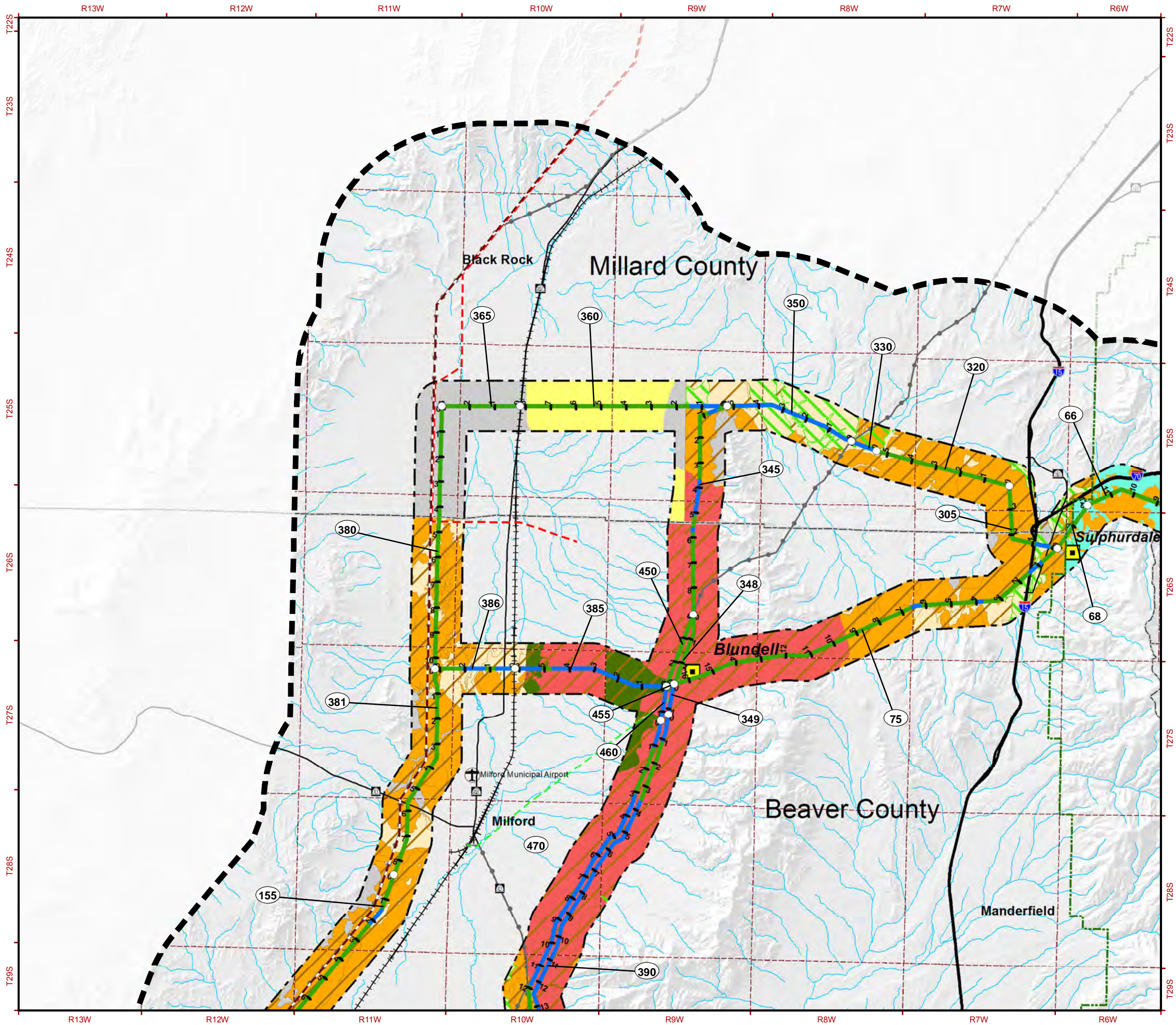
Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2006, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 4b
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime Farmland
- Not Prime Farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

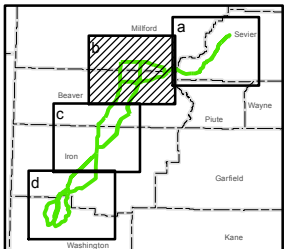
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2006, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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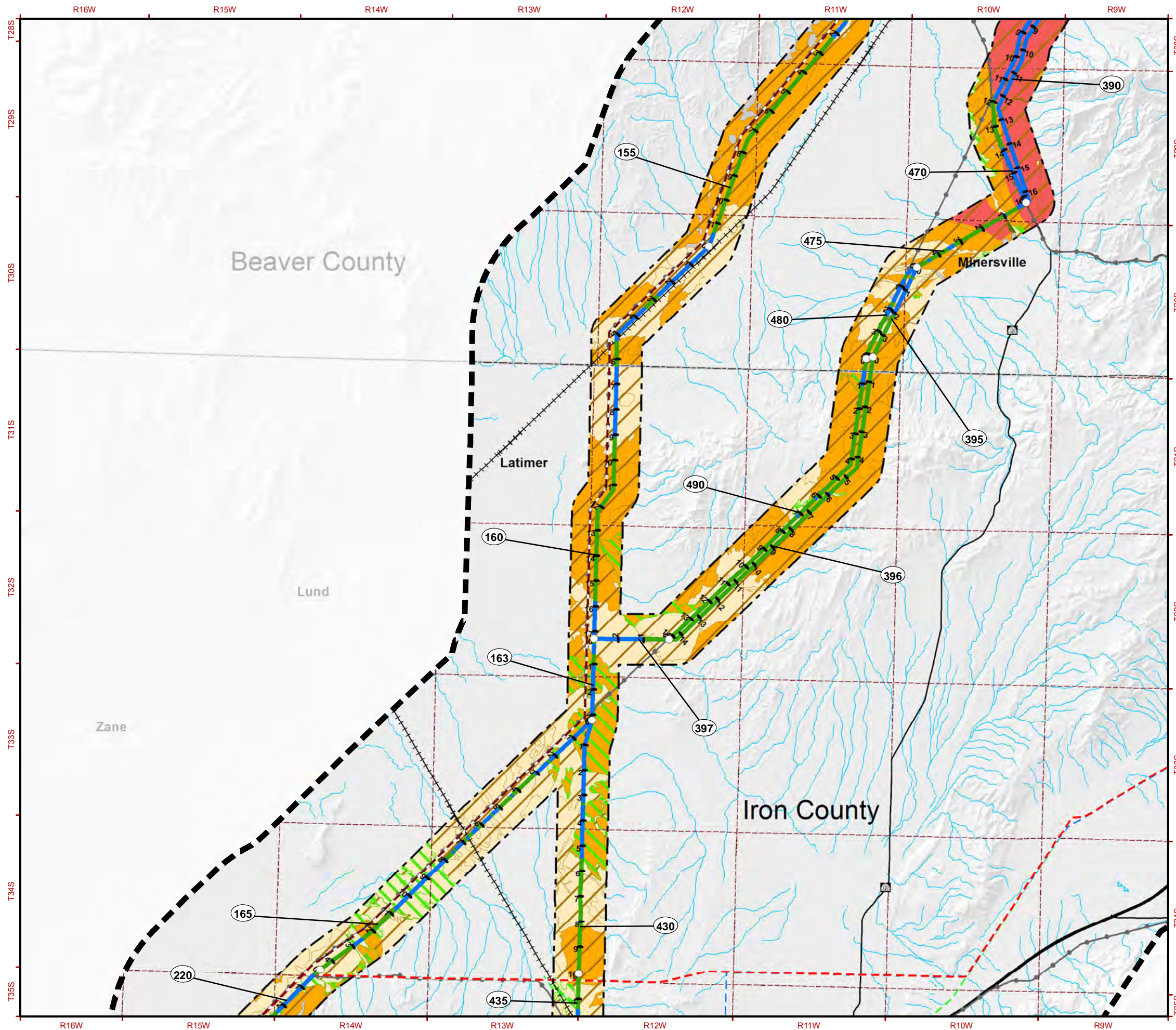


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV - 4c
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime Farmland
- Not Prime Farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

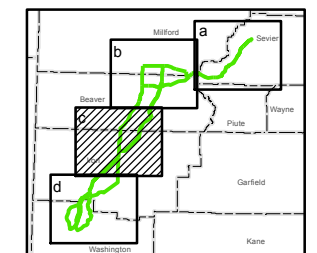
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2006, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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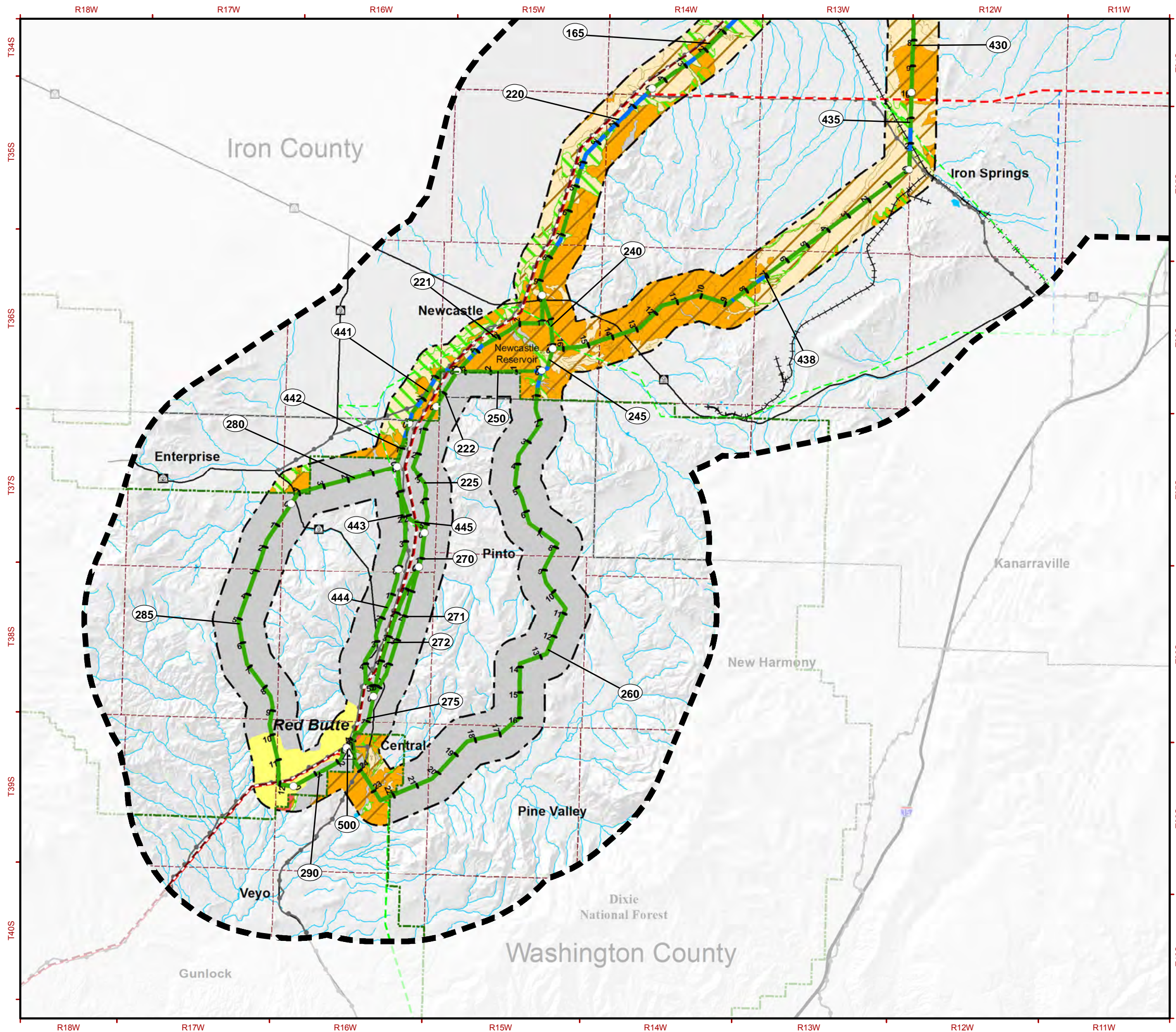


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MAP MV - 4d

SOIL RESOURCES

INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime Farmland
- Not Prime Farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

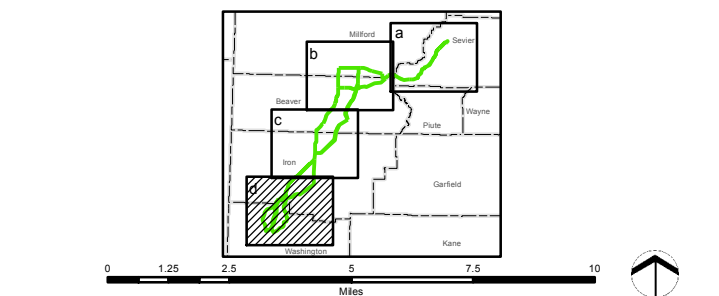
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2006, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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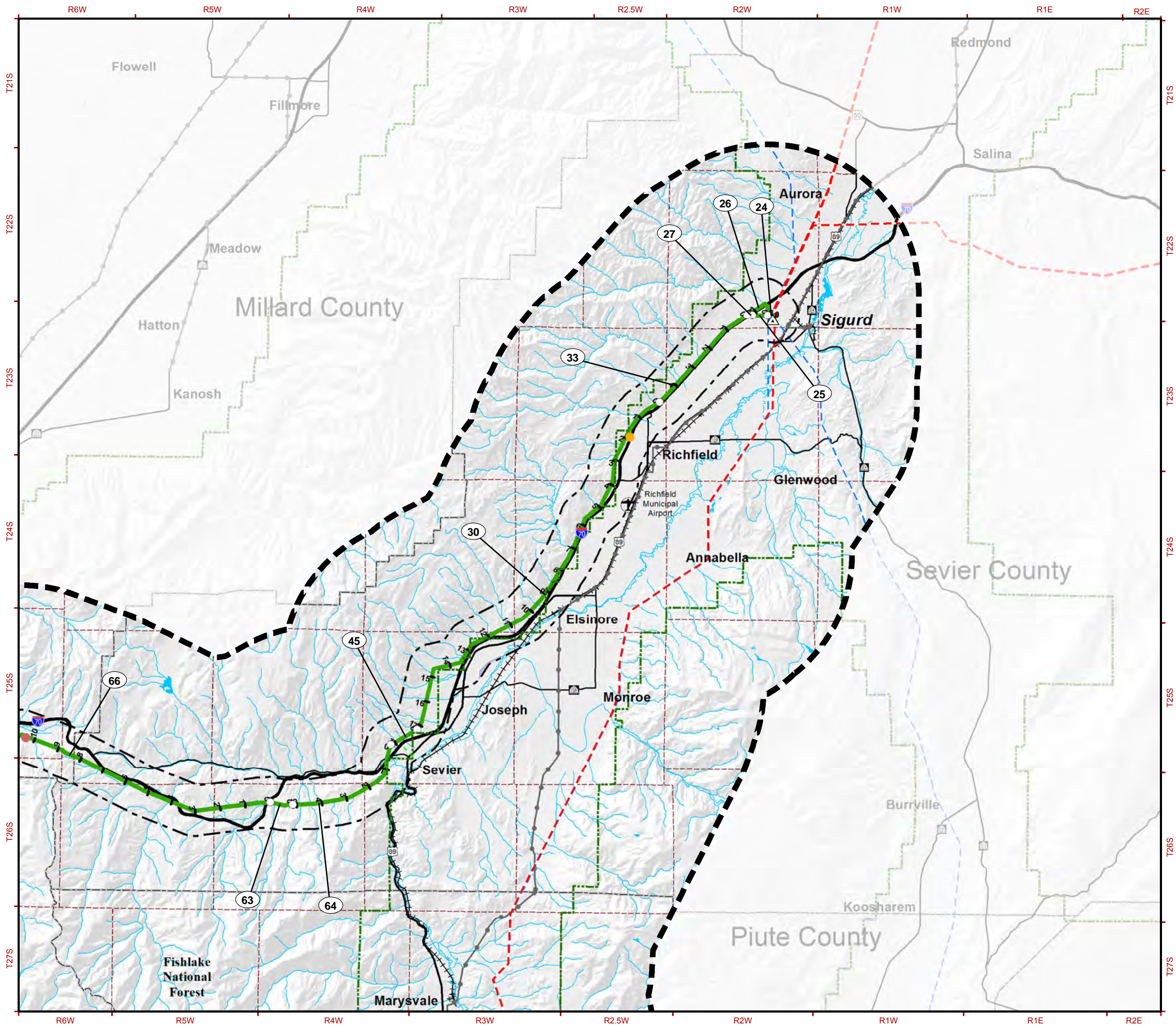
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345kV TRANSMISSION PROJECT



Water Resources



MAP MV – 5a
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

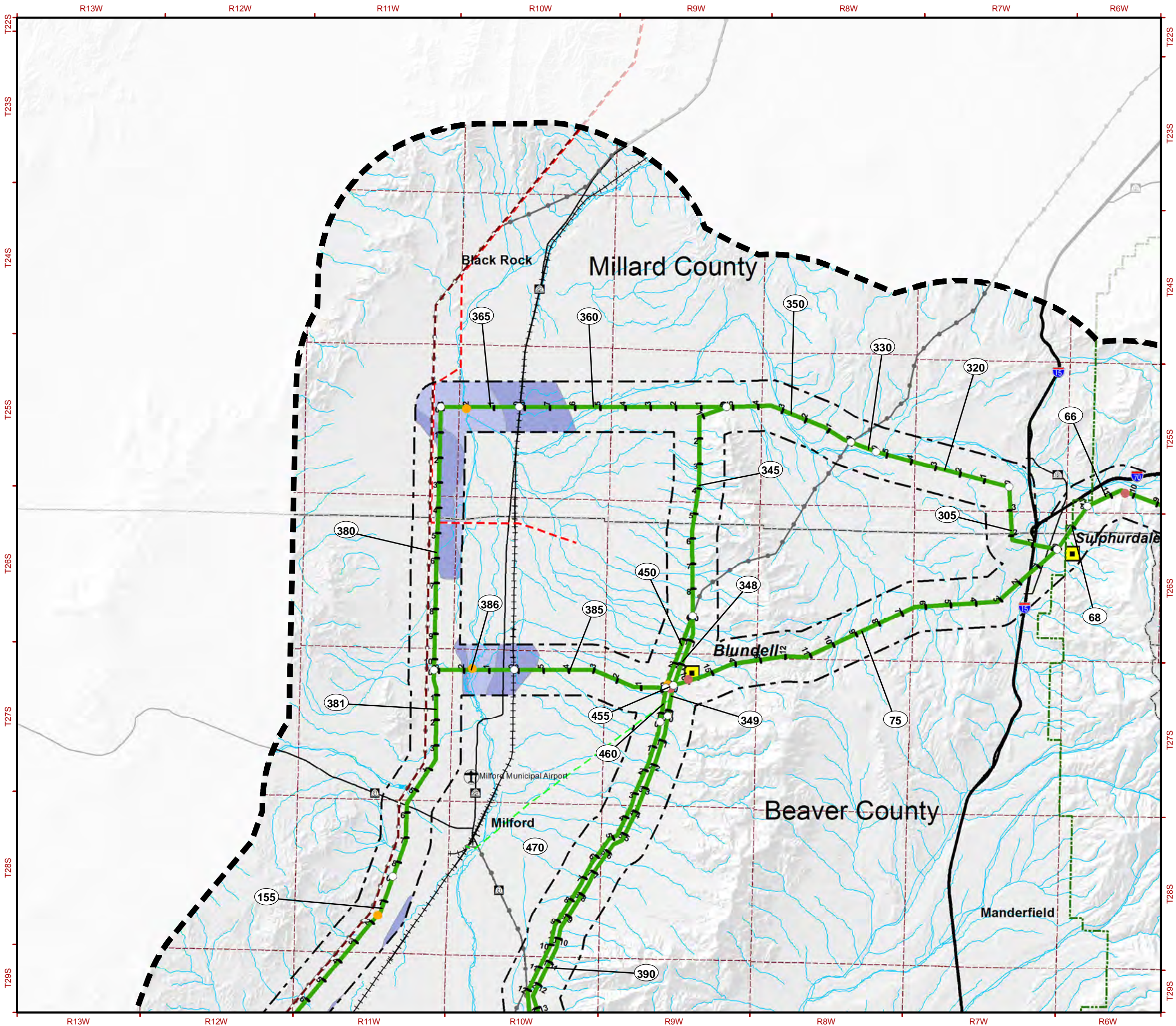
SOURCES:
Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 5b
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

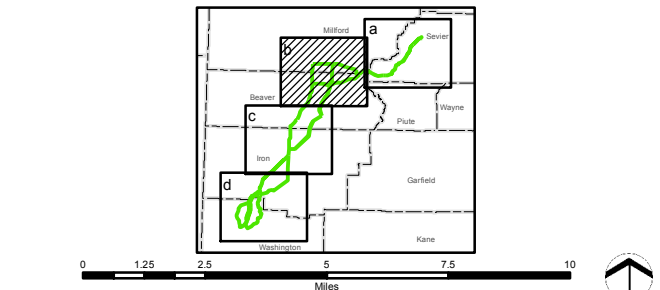
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

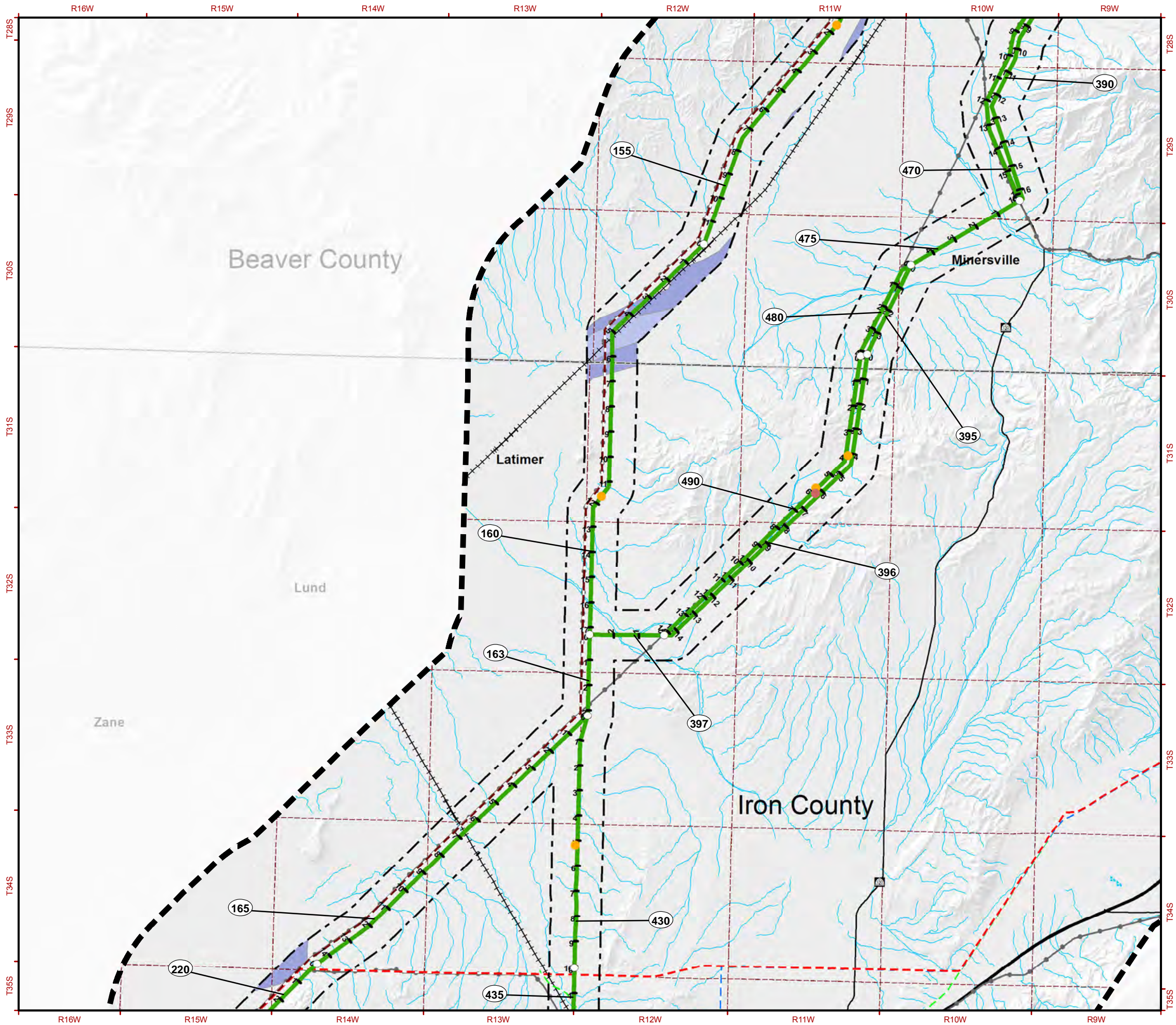
Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 5c
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

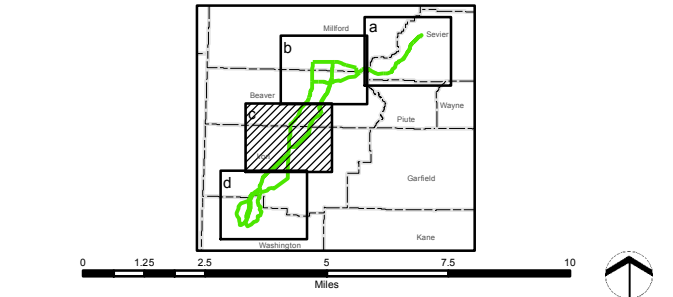
- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	
345kV Transmission Line	
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

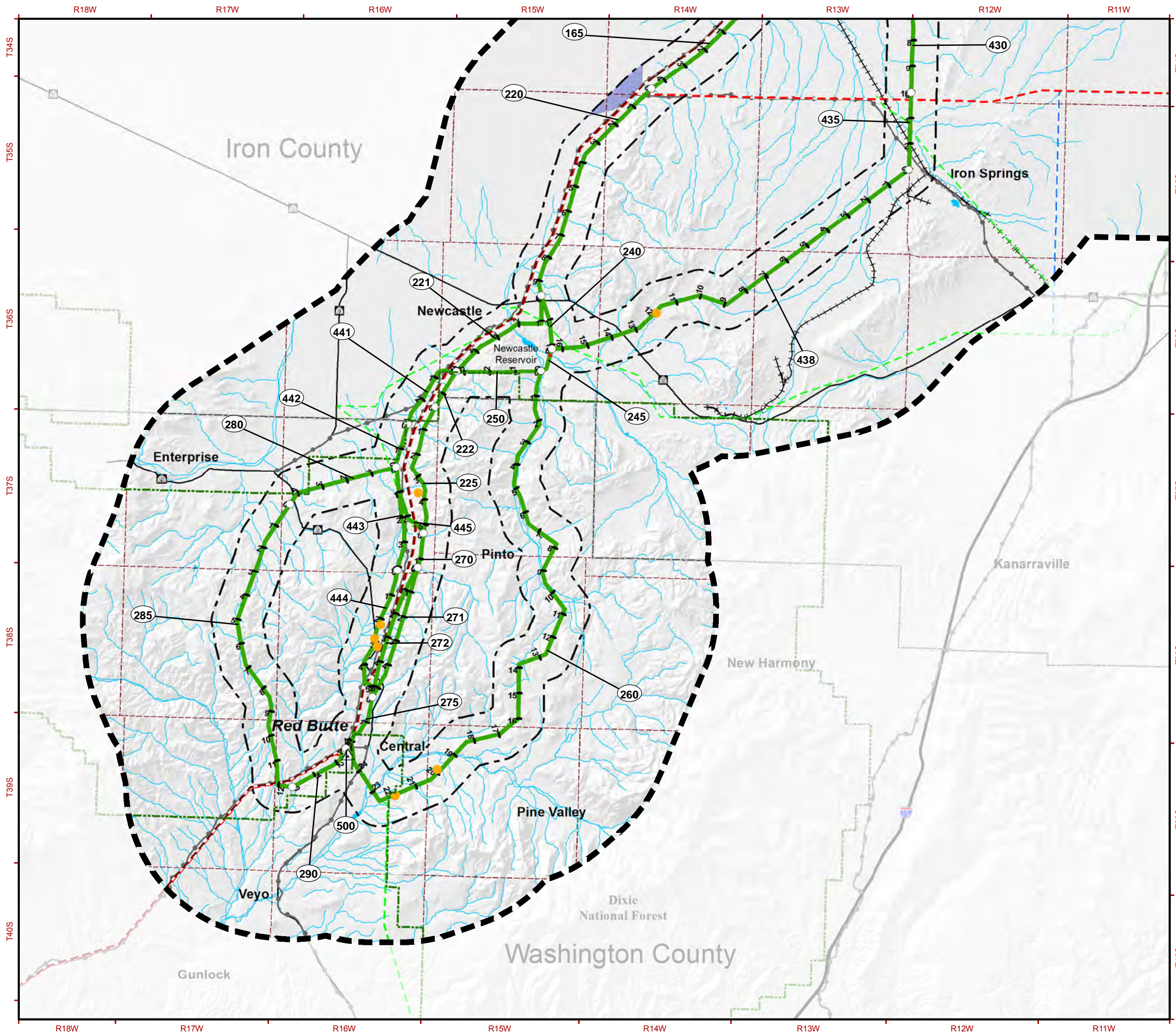
SOURCES:
Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 5d WATER RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- ~ River or Stream
- ~ Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

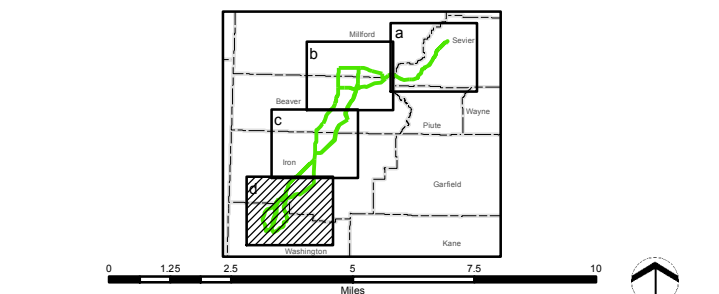
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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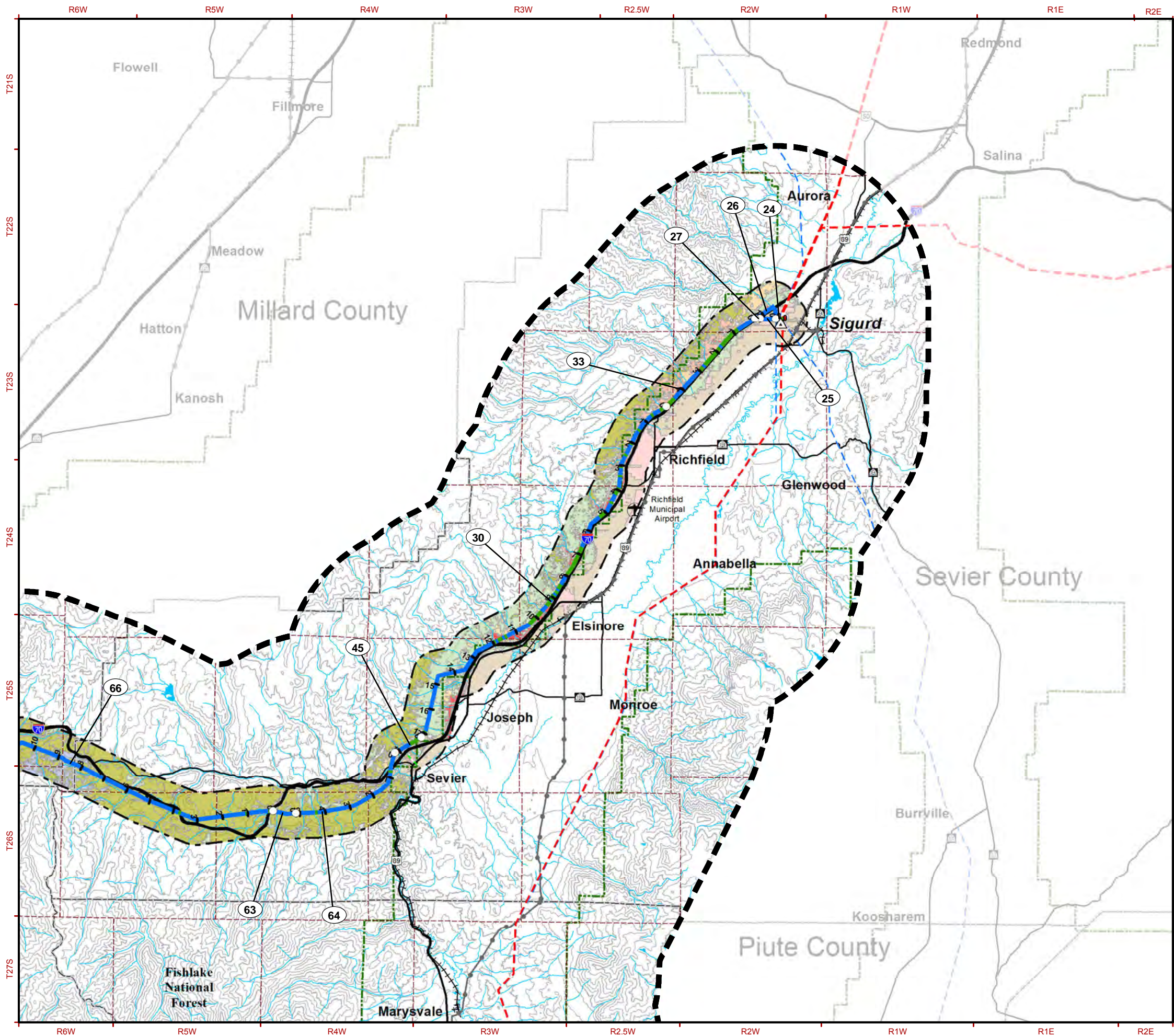
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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT



Biological Resources



MAP MV – 6a VEGETATION INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

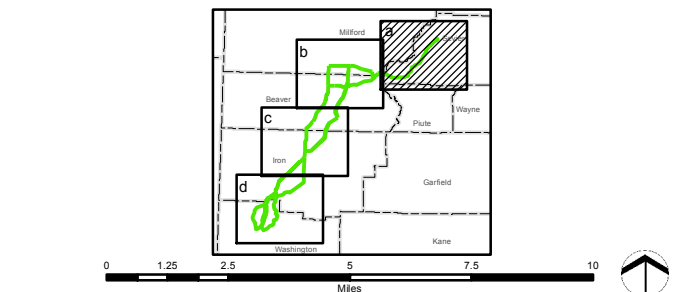
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent
impacts remaining (residual) after
the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour
(500-Meter Interval)
- Index Contour
(100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2006
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
POWERmap, powermap.platts.com
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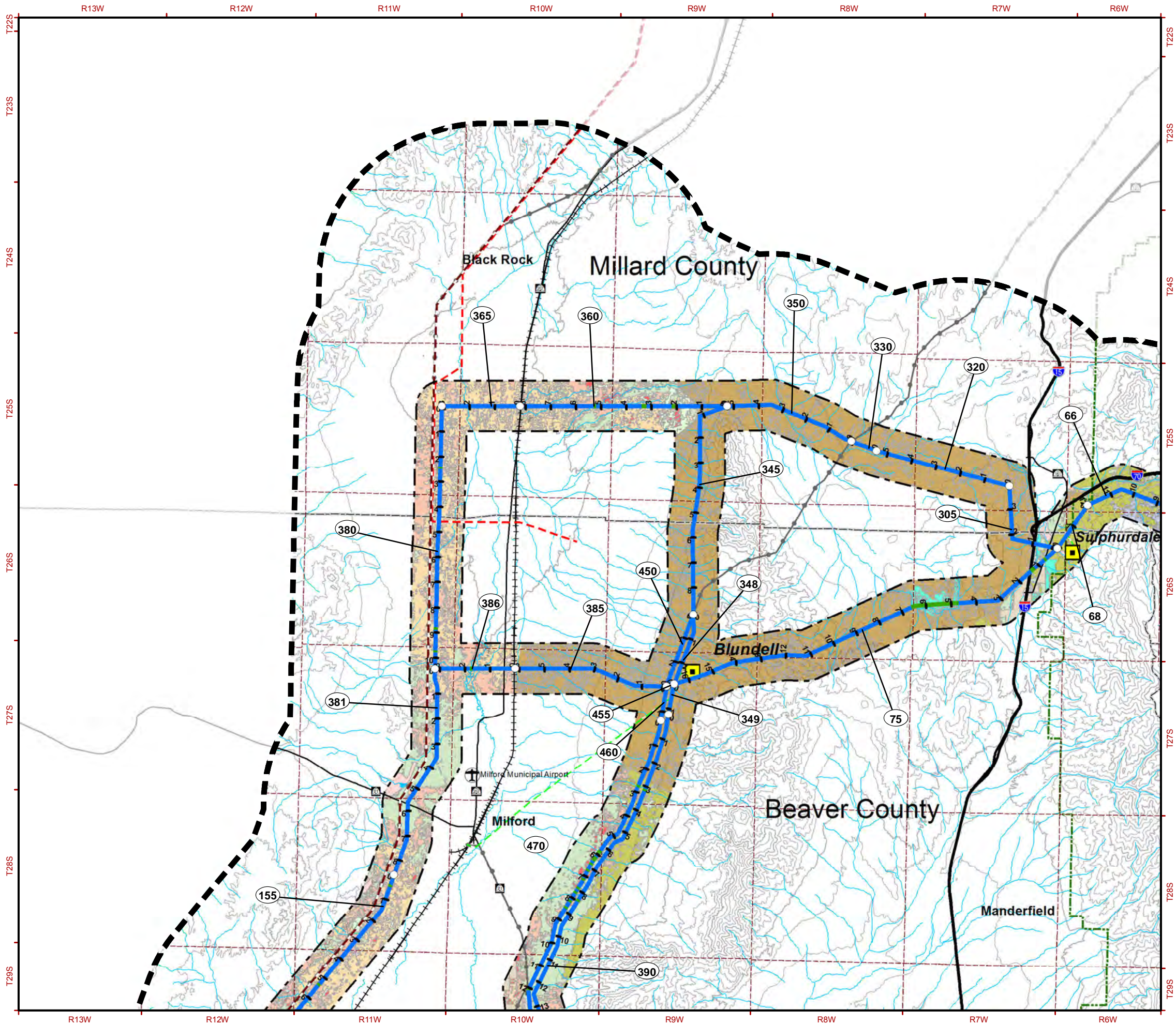


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MAP MV – 6b
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

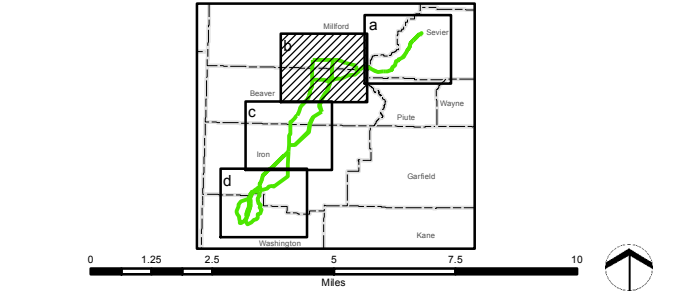
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

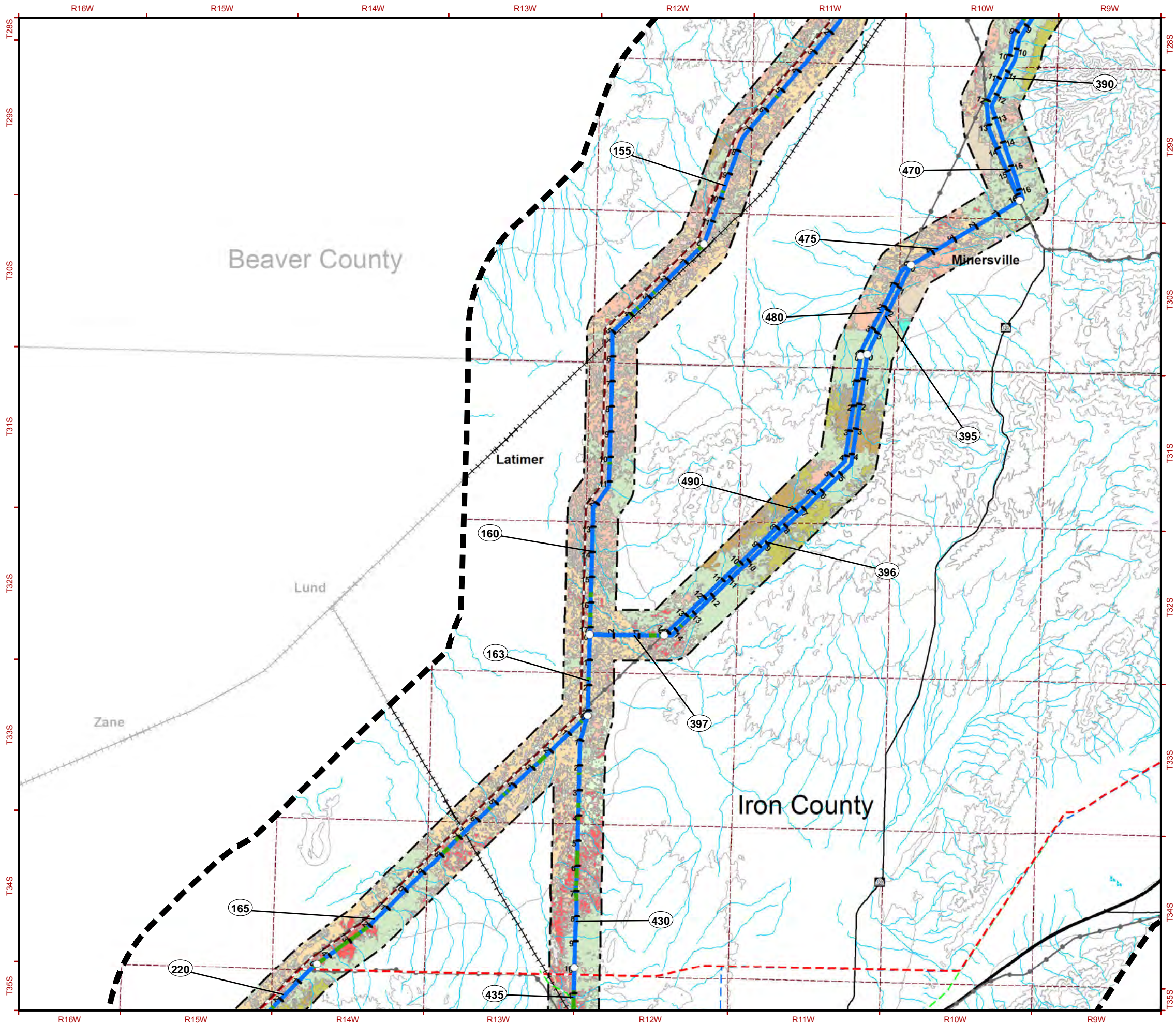
GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline

- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:
Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2006
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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MAP MV – 6c
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

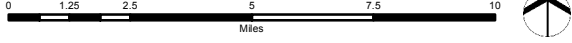
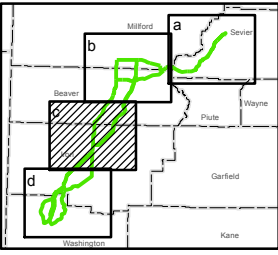
Note: Impact levels shown represent
impacts remaining (residual) after
the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour
(500-Meter Interval)
- Index Contour
(100-Meter Interval)

SOURCES:

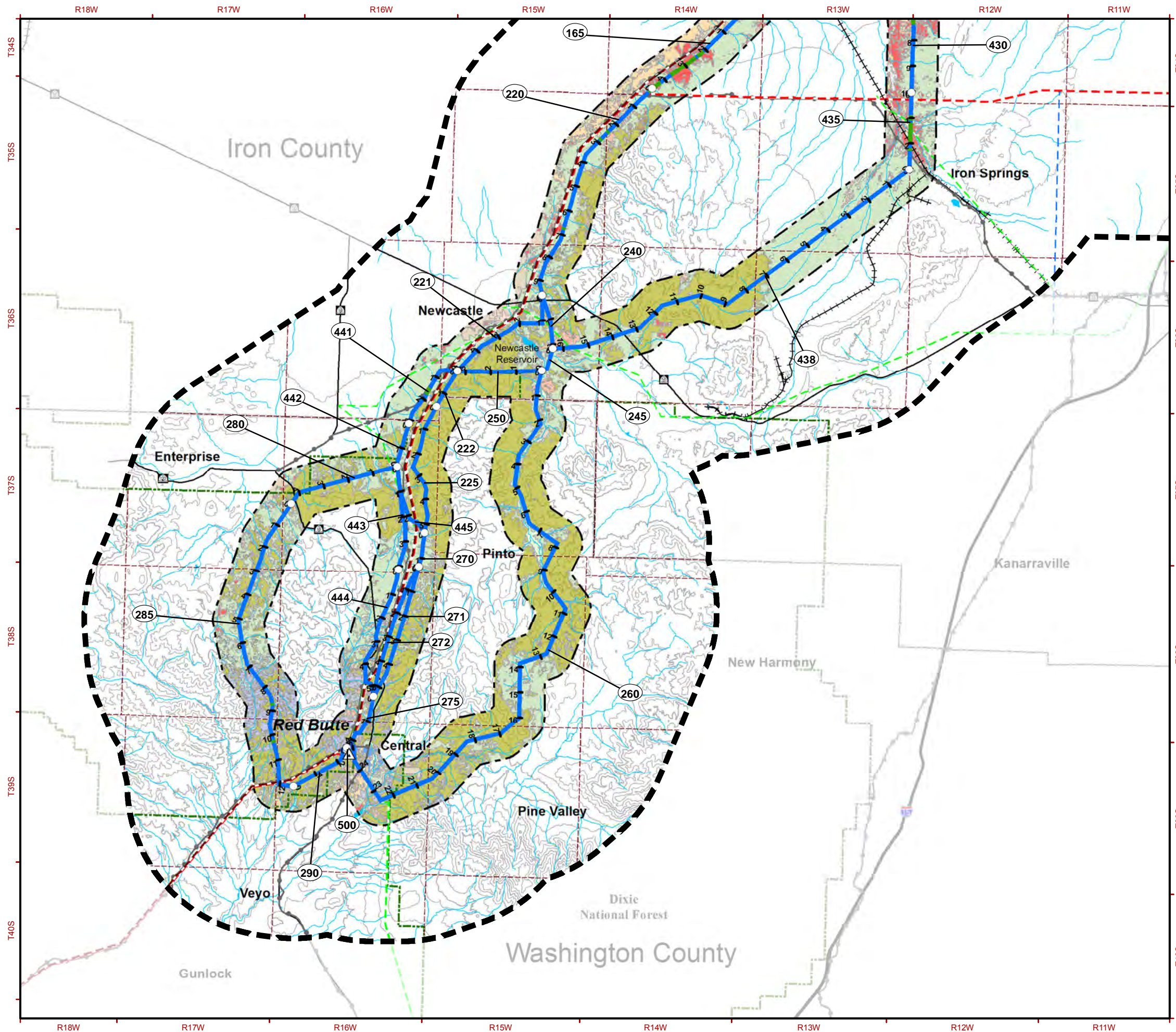
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U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 6d VEGETATION INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

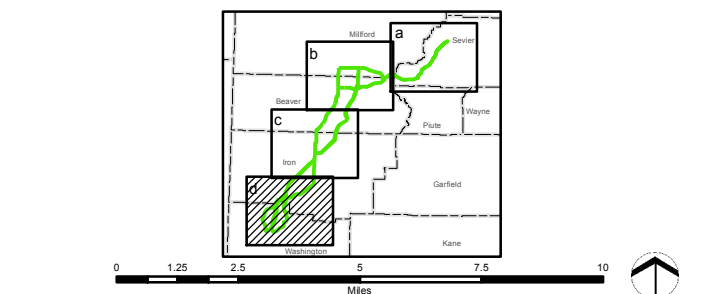
Note: Impact levels shown represent
impacts remaining (residual) after
the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour
(500-Meter Interval)
- Index Contour
(100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2006
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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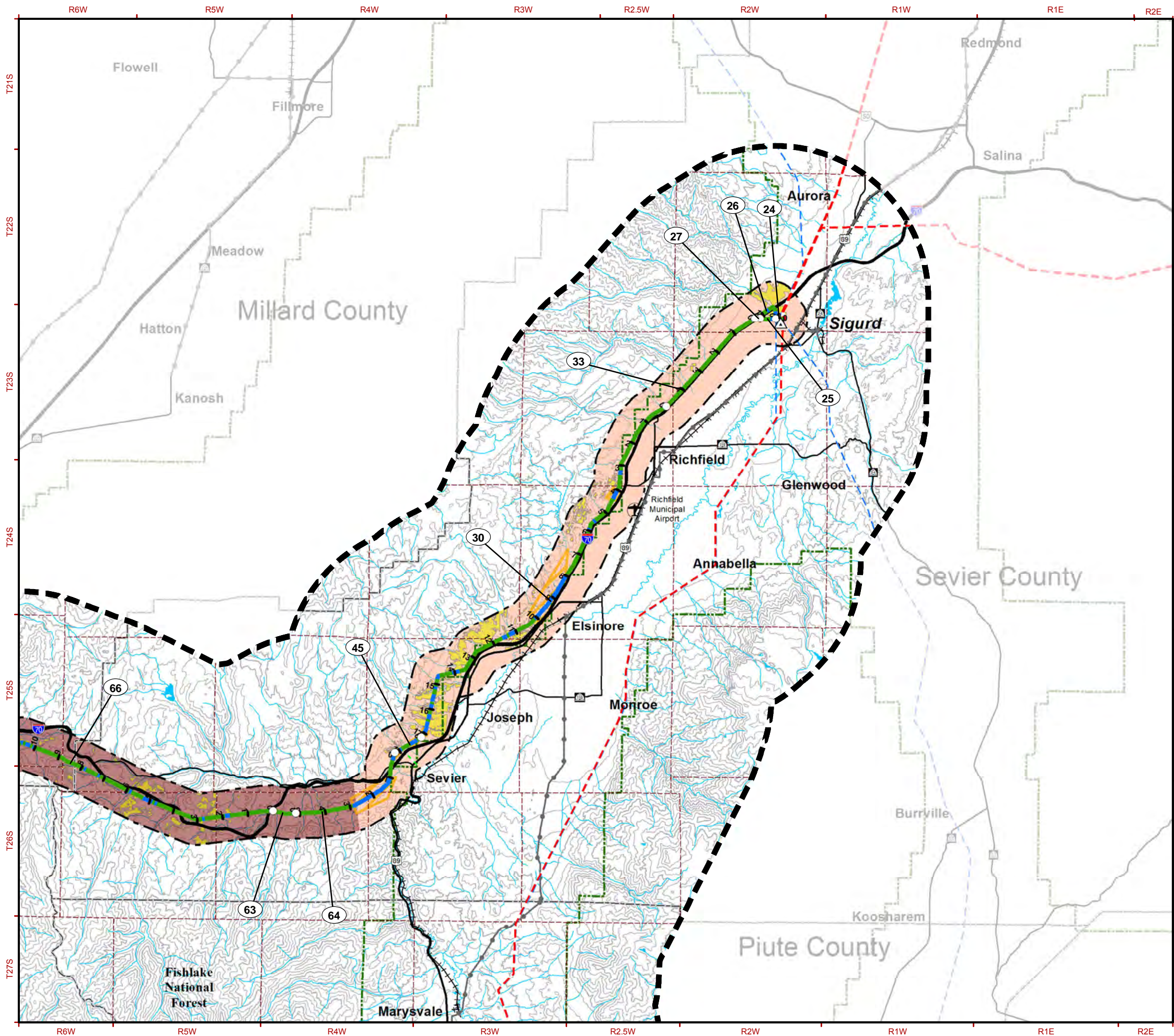


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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT





MAP MV – 7a
SENSITIVE HABITATS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PYGMY RABBIT HABITAT

Potential Habitat

SAGE-GROUSE HABITAT

Crucial Brood-rearing Habitat

Crucial Winter Habitat

SENSITIVE PLANT HABITAT

Elsinore buckwheat, Ward's beardtongue, Utah phacelia

Pinyon penstemon

RAPTOR HABITAT

High Quality

Medium Quality

Low Quality

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

Index Contour (500-Meter Interval)

Index Contour (100-Meter Interval)

SOURCES:

Resource Data:

Impact: EPG, 2010

Sage-Grouse Habitat: UDWR, 2011

Pygmy Rabbit: EPG, 2011; Sensitive Plants: EPG, 2010

Raptor: UDWR, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

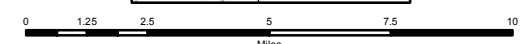
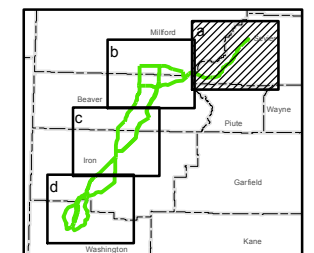
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Water, River, Stream: USGS, 2008

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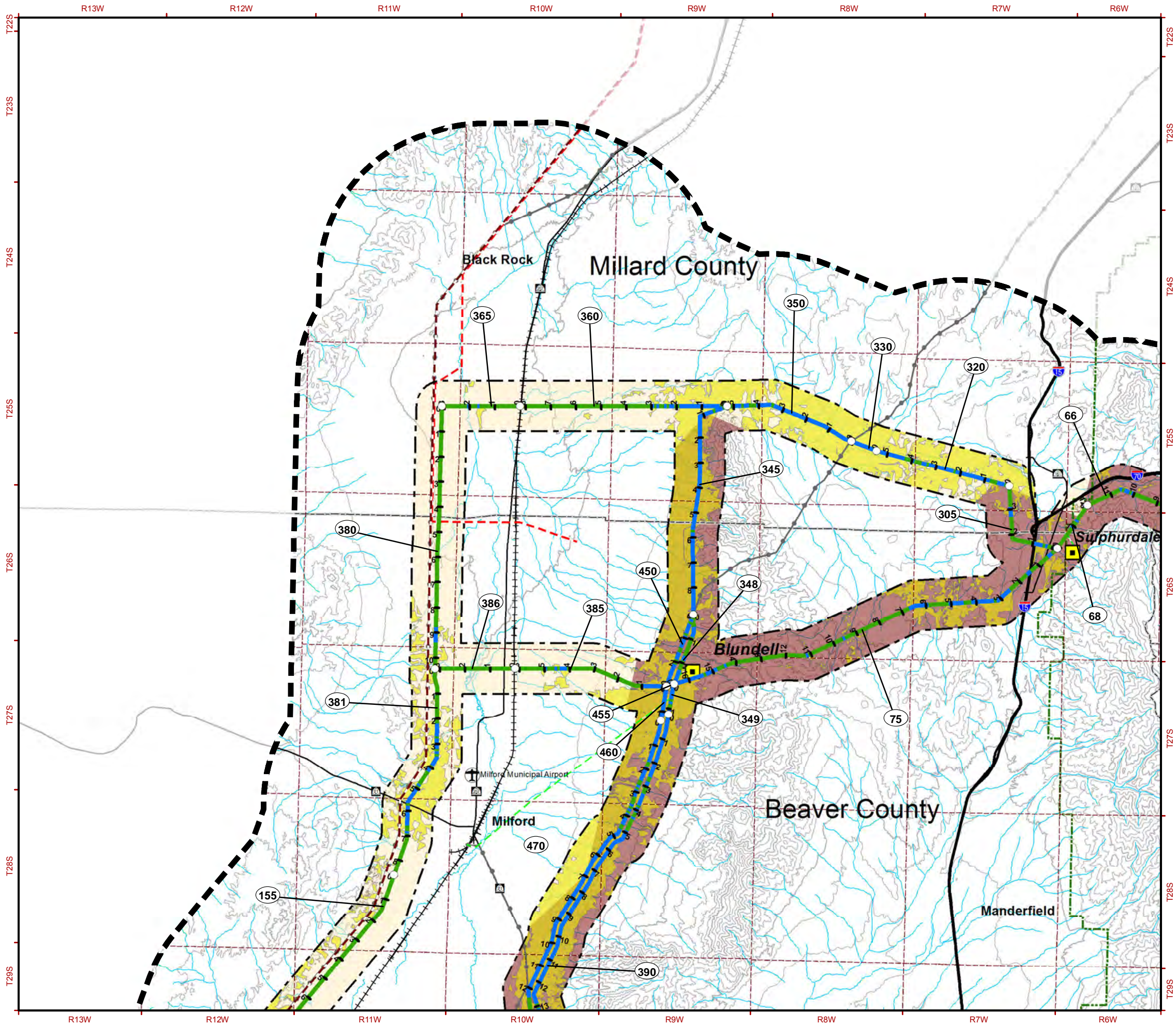


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 7b
SENSITIVE HABITATS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PYGMY RABBIT HABITAT

Potential Habitat

SAGE-GROUSE HABITAT

Crucial Brood-rearing Habitat

Crucial Winter Habitat

SENSITIVE PLANT HABITAT

Elsinore buckwheat, Ward's beardtongue, Utah phacelia

Pinyon penstemon

RAPTOR HABITAT

High Quality

Medium Quality

Low Quality

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

Index Contour (500-Meter Interval)

Index Contour (100-Meter Interval)

SOURCES:

Resource Data:

Impact: EPG, 2010

Sage-Grouse Habitat: UDWR, 2011

Pygmy Rabbit: EPG, 2011; Sensitive Plants: EPG, 2010

Raptor: UDWR, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

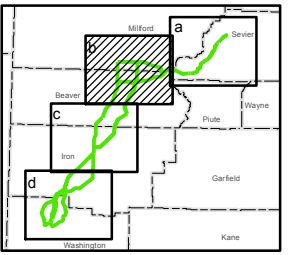
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Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Water, River, Stream: USGS, 2008

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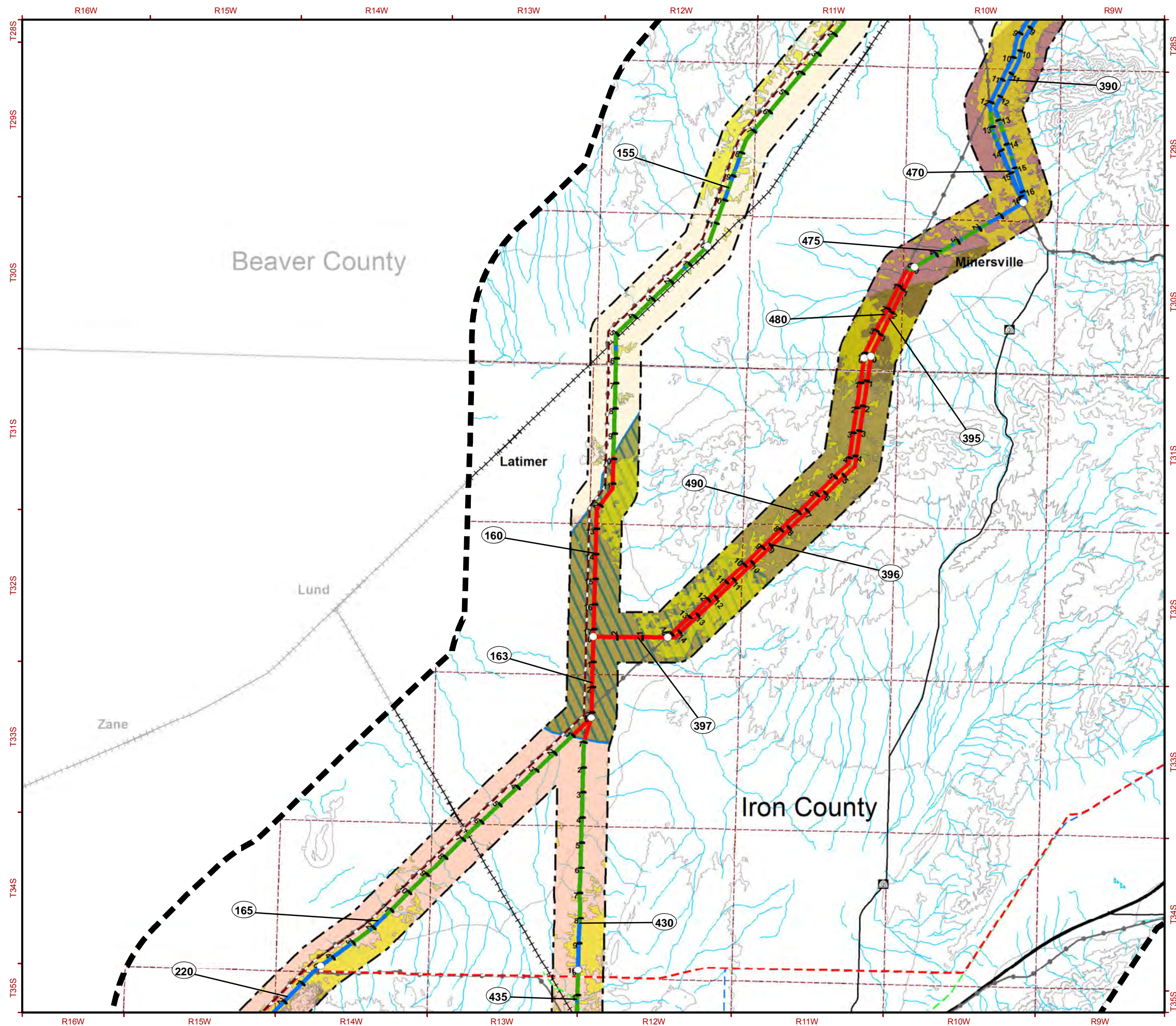


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 7c
SENSITIVE HABITATS
INVENTORY AND IMPACTS

RESOURCE INVENTORY



PYGMY RABBIT HABITAT

- Potential Habitat

SAGE-GROUSE HABITAT

- Crucial Brood-rearing Habitat
■ Crucial Winter Habitat

SENSITIVE PLANT HABITAT


























-  Elsinore buckwheat, Ward's beardtongue, Utah phacelia
 Pinyon penstemon

RAPTOR HABITAT

- High Quality
 - Medium Quality
 - Low Quality

Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

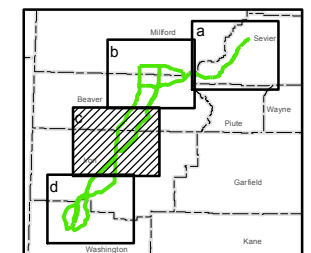
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- The legend is organized into two columns. The left column contains symbols for project-specific features, while the right column contains symbols for general geographic features. Each symbol is accompanied by a text label.
- | | | | |
|---|--------------------------------|---|---------------------------------------|
|  | Project Study Area |  | County Boundary |
|  | Study Corridor |  | U.S. Forest Service Boundary |
|  | Link Number |  | Township Line |
|  | Mile Tick |  | Interstate Highway |
|  | Centerline |  | U.S. Highway |
|  | Link Node |  | State Highway |
|  | Power Plant |  | Railroad |
|  | Substation |  | Airport |
|  | 500kV +/- DC Transmission Line |  | River or Stream |
|  | 345kV Transmission Line |  | Lake or Reservoir |
|  | 230 to 287kV Transmission Line |  | Index Contour
(500-Meter Interval) |
|  | 138 to 161kV Transmission Line |  | Index Contour
(100-Meter Interval) |
|  | Pipeline | | |

SOURCES:

Resource Data:

Impact: EPG, 2010
Sage-Grouse Habitat: UDWR, 2011
Pygmy Rabbit: EPG, 2011; Sensitive Plants: EPG, 2010
Raptor: UDWR, 2010

Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTA2D008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Water, River, Stream: USGS, 2008
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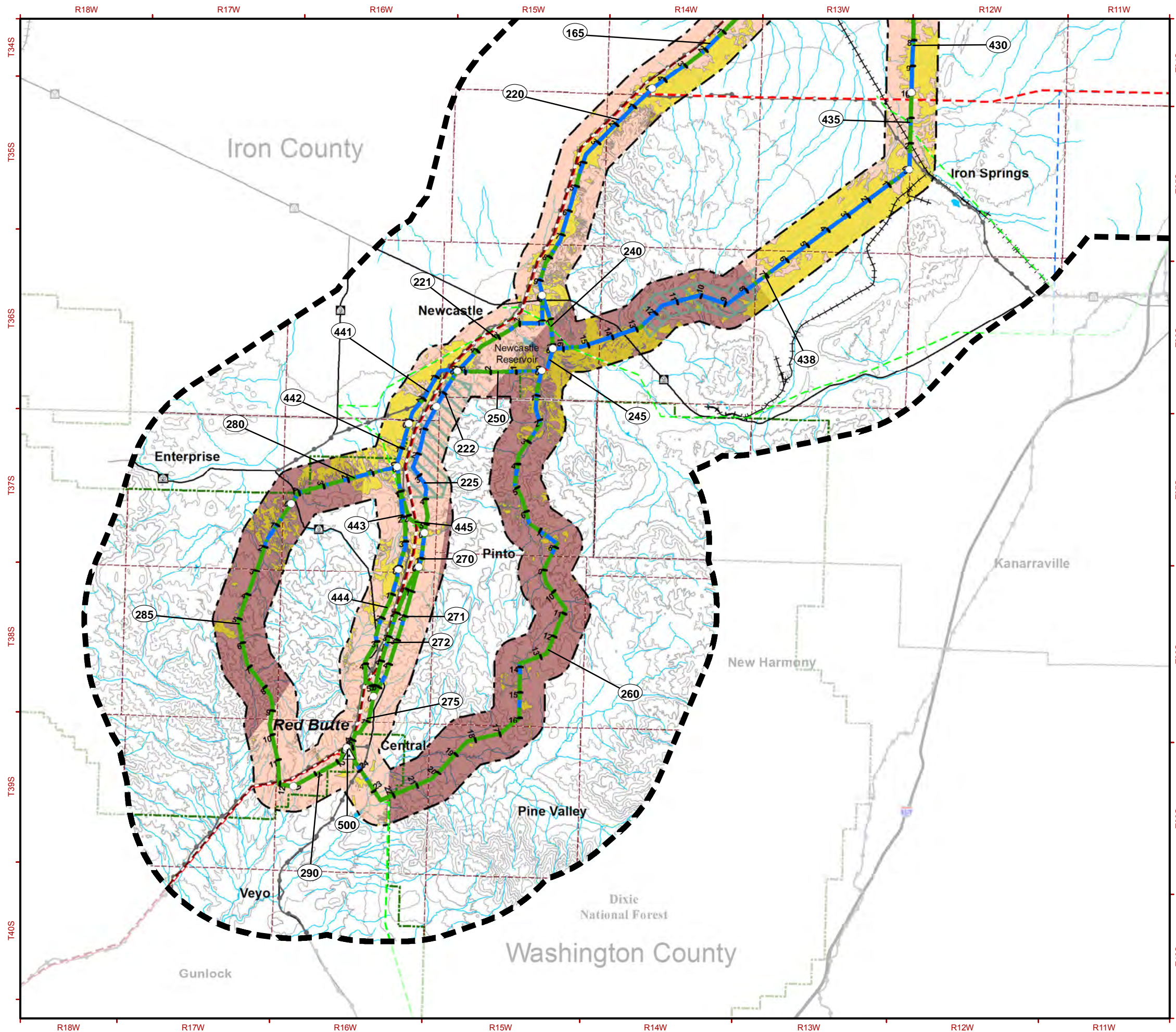


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV - 7d SENSITIVE HABITATS INVENTORY AND IMPACTS

RESOURCE INVENTORY

PYGMY RABBIT HABITAT

Potential Habitat

SAGE-GROUSE HABITAT

Crucial Brood-rearing Habitat

Crucial Winter Habitat

SENSITIVE PLANT HABITAT

Elsinore buckwheat, Ward's beardtongue, Utah phacelia

Pinyon penstemon

RAPTOR HABITAT

High Quality

Medium Quality

Low Quality

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

Index Contour (500-Meter Interval)

Index Contour (100-Meter Interval)

SOURCES:

Resource Data:

Impact: EPG, 2010

Sage-Grouse Habitat: UDWR, 2011

Pygmy Rabbit: EPG, 2011; Sensitive Plants: EPG, 2010

Raptor: UDWR, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

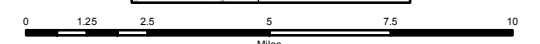
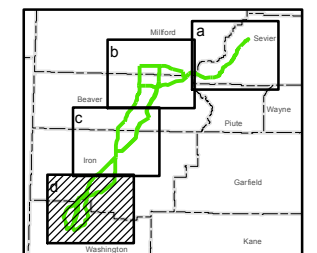
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Water, River, Stream: USGS, 2008

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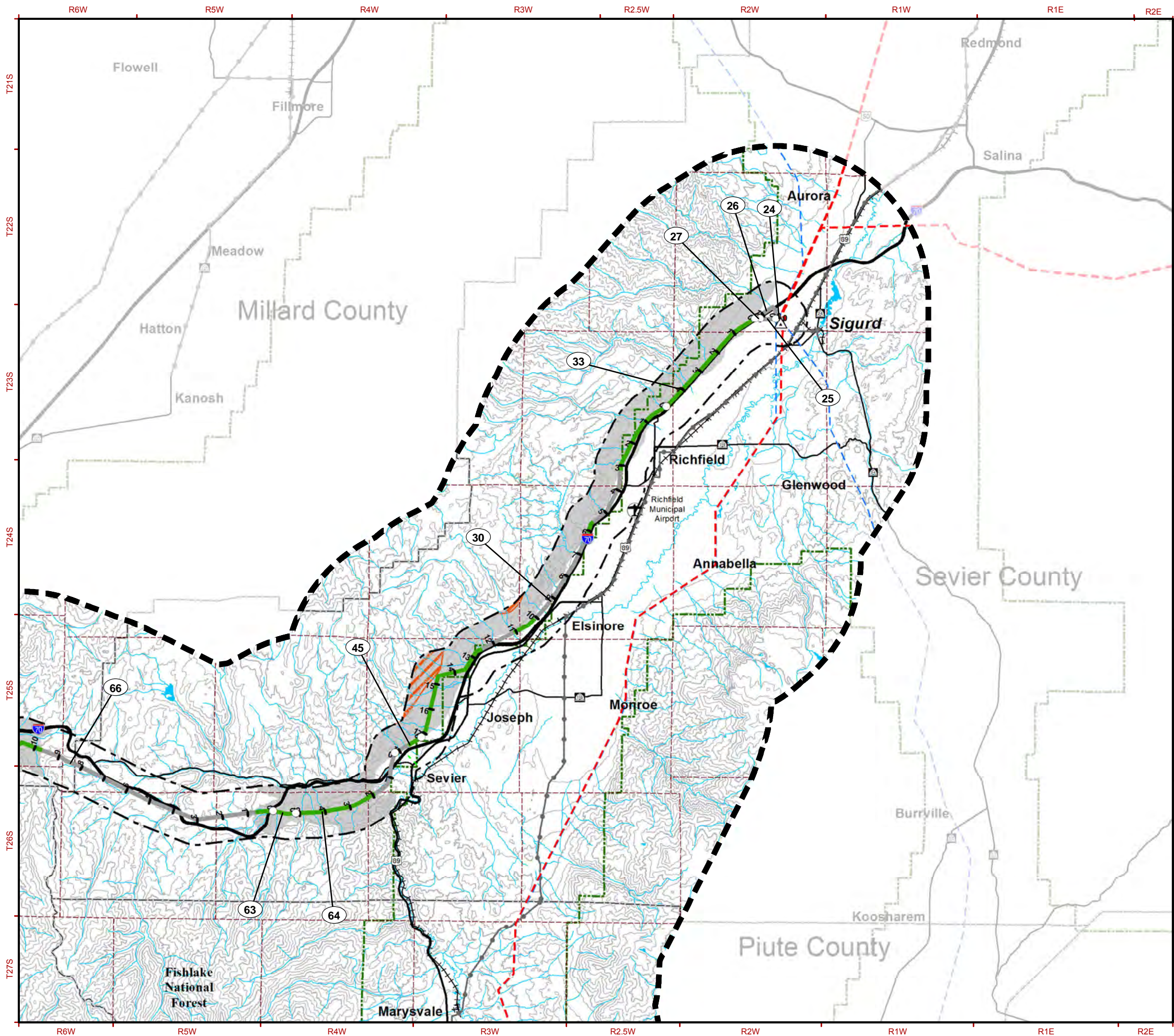


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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT





MAP MV – 8a
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT
(prho20100429)
Year-long

MULE DEER HABITAT
(mude20080324)

Summer
Winter

ELK HABITAT
(rmelk20080324)

Winter

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

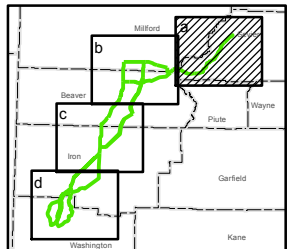
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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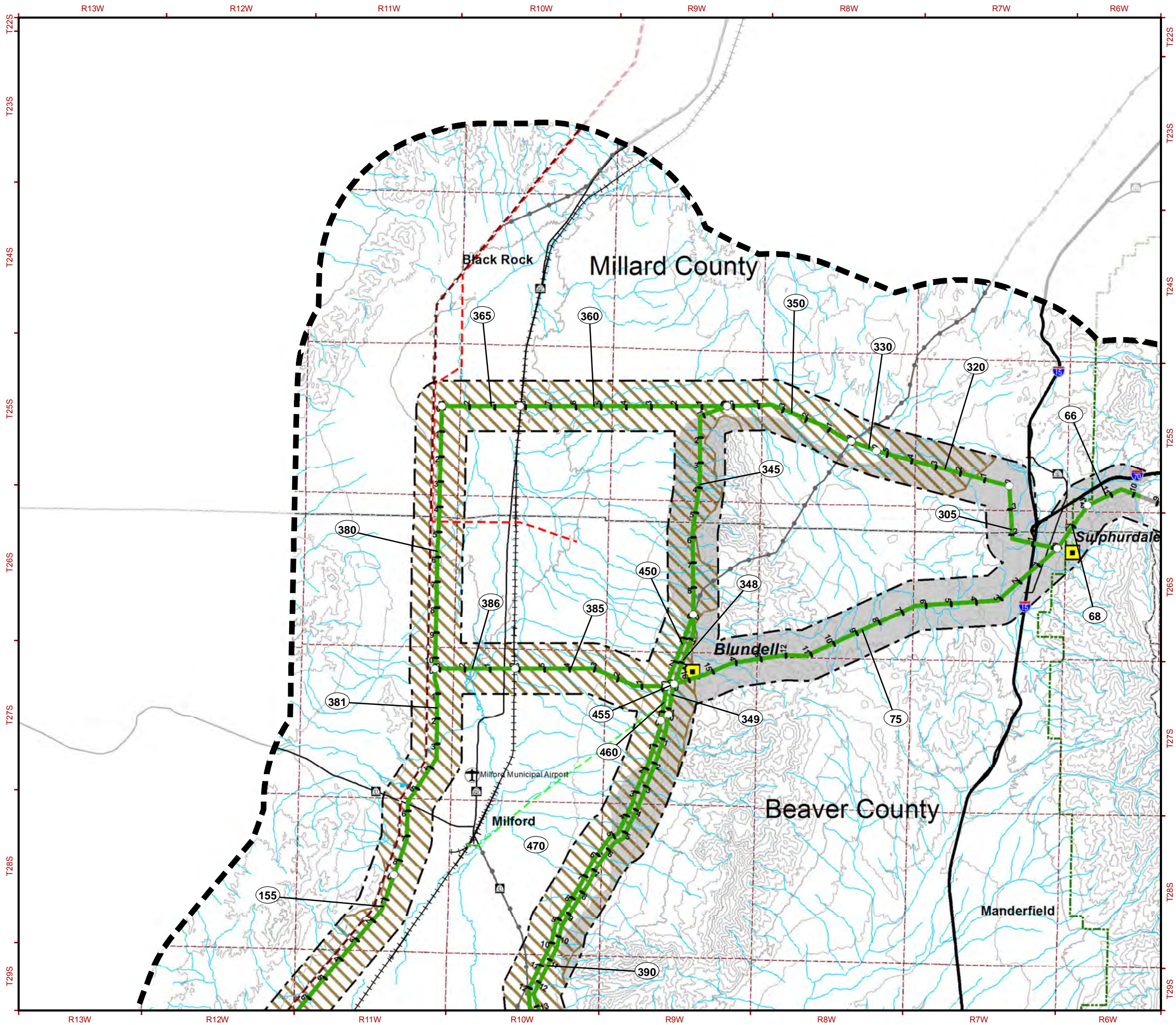


October 2012

Final EIS

SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 8b
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT
(prho20100429)

Year-long

MULE DEER HABITAT
(mude20080324)

Summer

Winter

ELK HABITAT
(rmelk20080324)

Winter

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

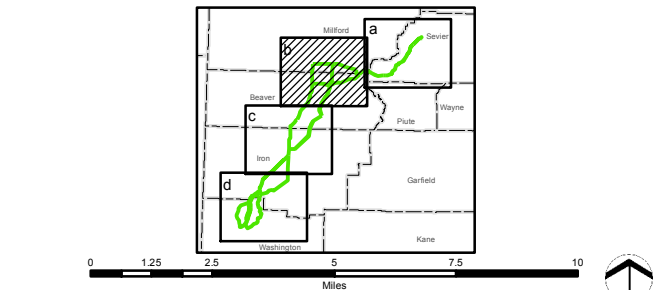
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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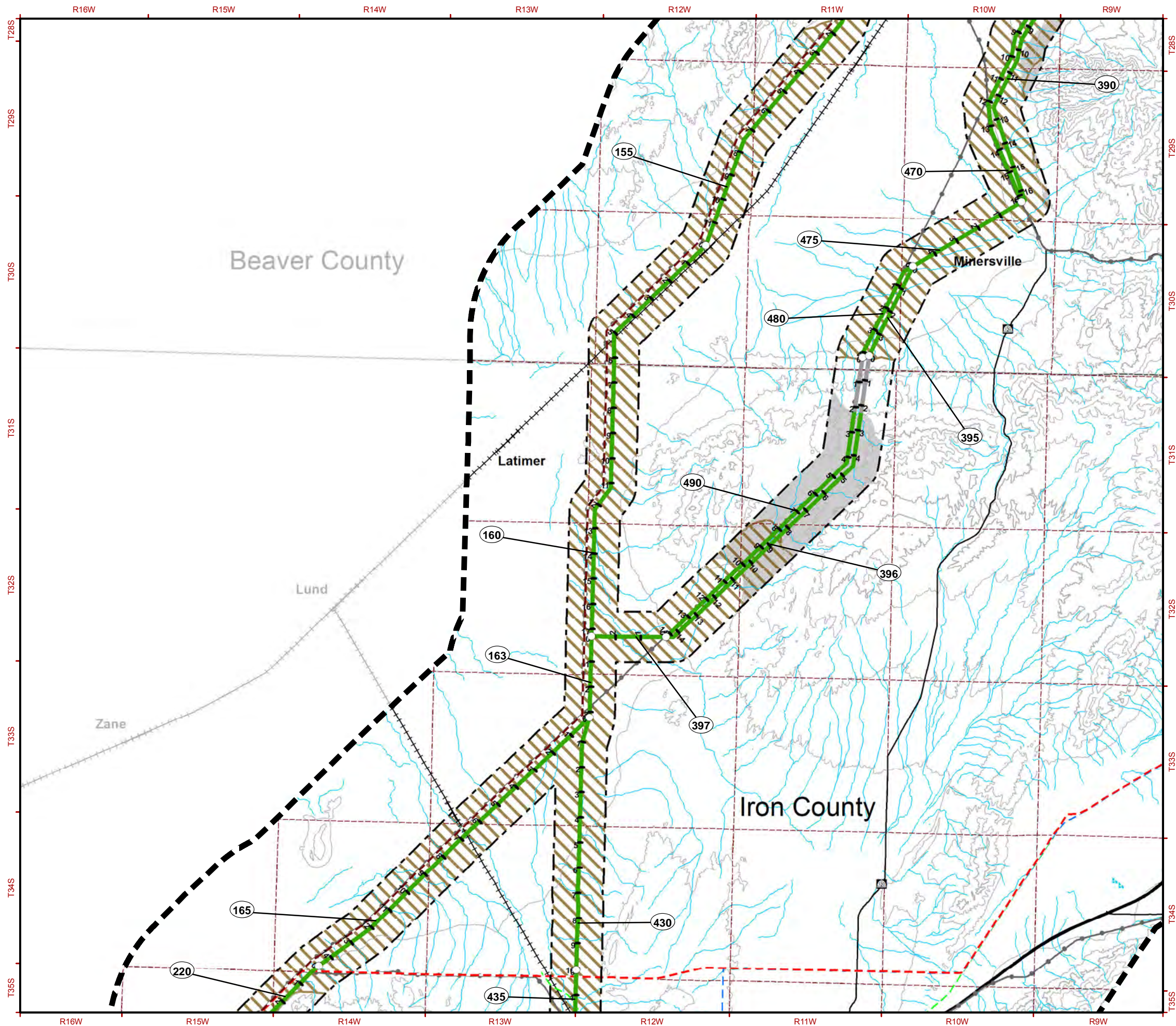


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Final EIS

SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 8c
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT
(prho20100429)

Year-long

MULE DEER HABITAT
(mude20080324)

Summer

Winter

ELK HABITAT
(rmelk20080324)

Winter

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

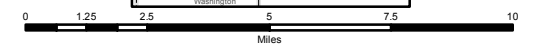
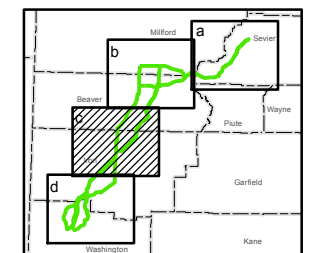
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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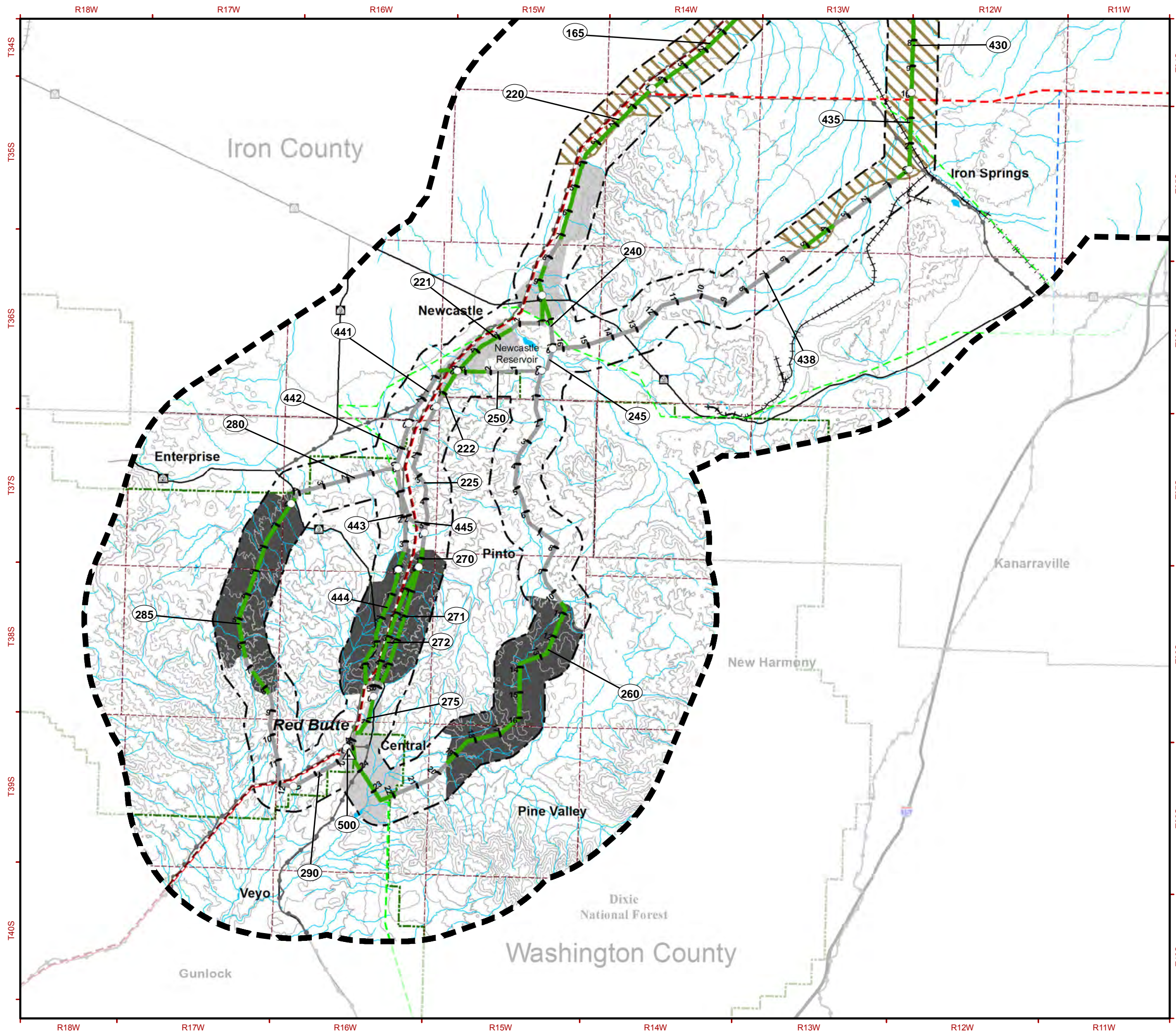


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 8d
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT
(prho20100429)
Year-long

MULE DEER HABITAT
(mude20080324)
Summer
Winter

ELK HABITAT
(rmelk20080324)
Winter

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

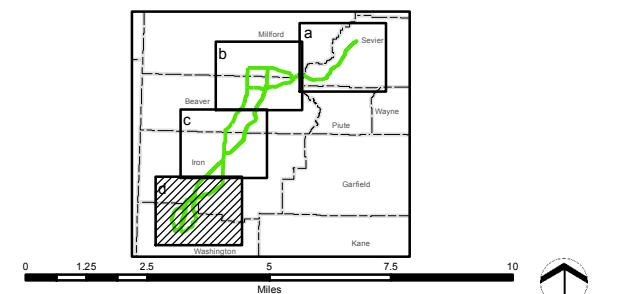
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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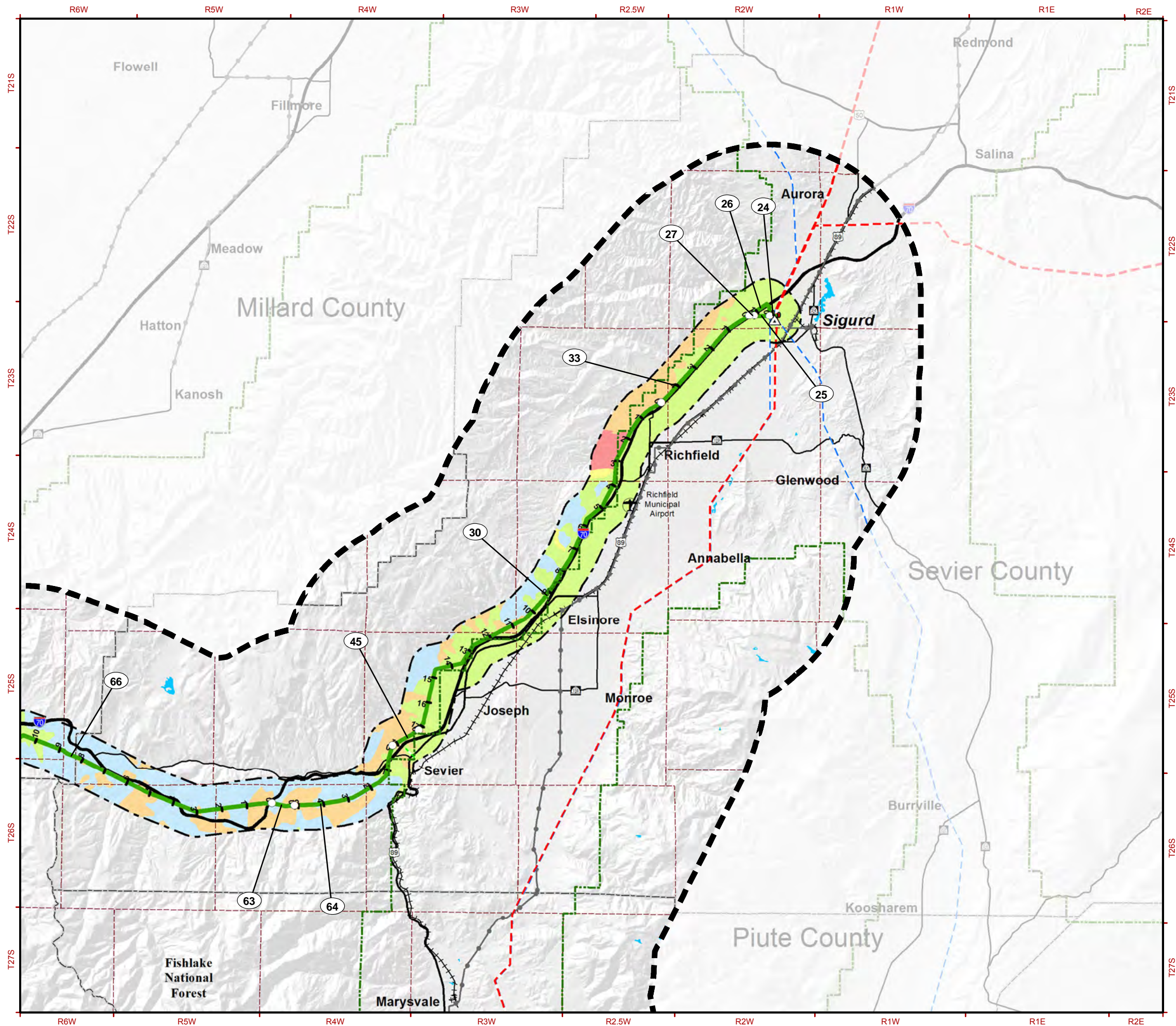
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



Paleontological Resources

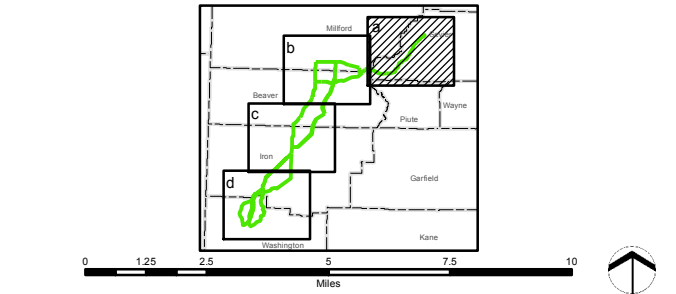


MAP MV – 9a
PALEONTOLOGICAL RESOURCES
INVENTORY AND SENSITIVITY

RESOURCE INVENTORY	IMPACT LEVELS
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)	High
Very High	Moderate
High	Low
Moderate/Undetermined	Not Identifiable
Low	
Very Low	

GENERAL REFERENCE FEATURES	
Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

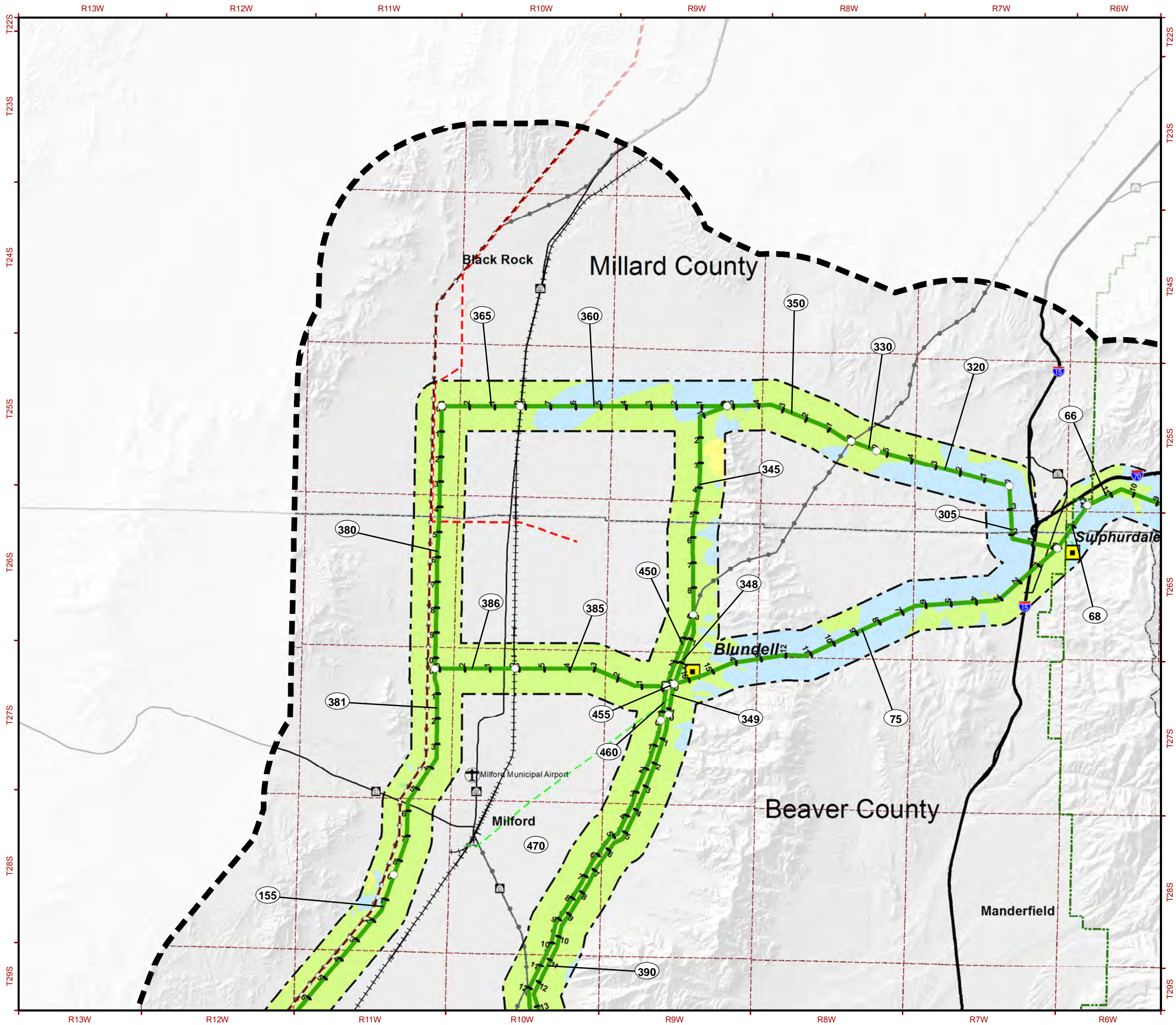
SOURCES:
Resource Data:
Impact: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV - 9b

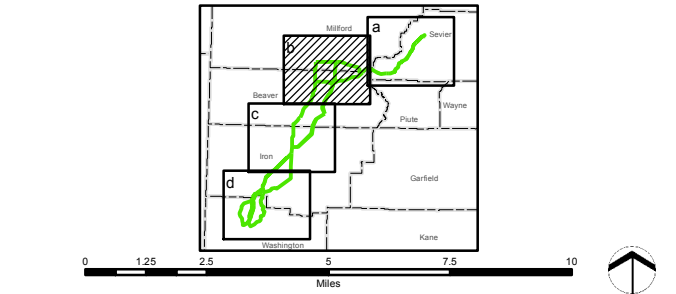
PALEONTOLOGICAL RESOURCES

INVENTORY AND SENSITIVITY

RESOURCE INVENTORY	IMPACT LEVELS
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)	High
Very High	Moderate
High	Low
Moderate/Undetermined	Not Identifiable
Low	
Very Low	

GENERAL REFERENCE FEATURES	
Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
Resource Data:
Impact: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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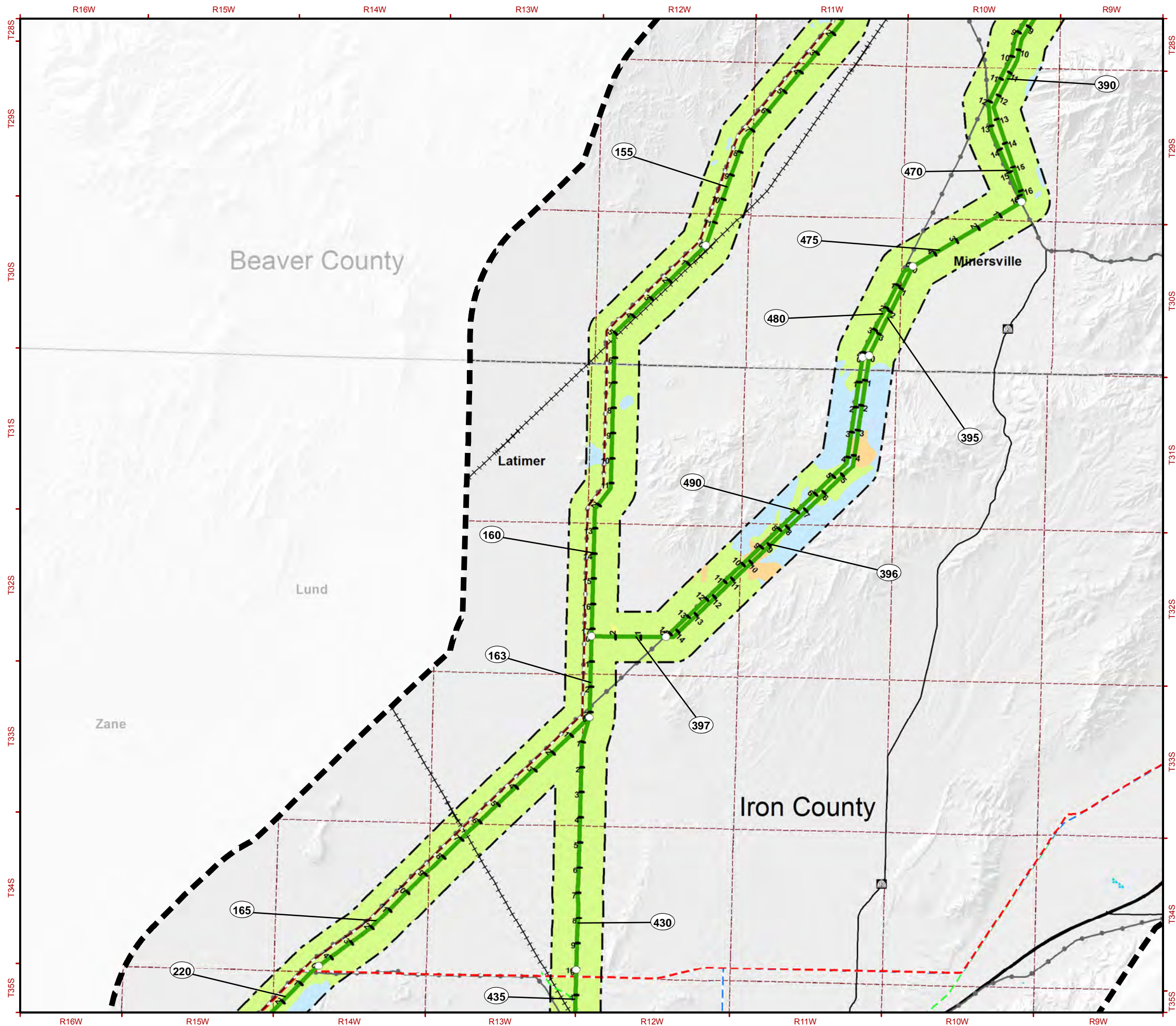


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SIGURD TO RED BUTTE NO. 2

345kV TRANSMISSION PROJECT





MAP MV - 9c

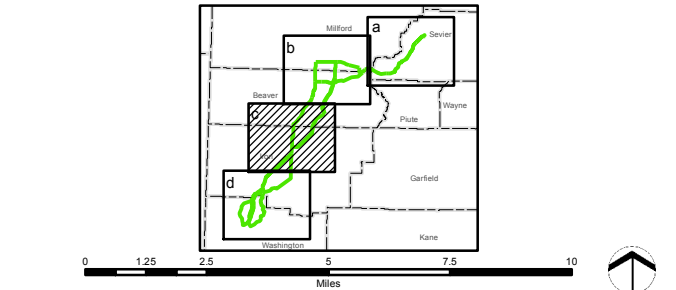
PALEONTOLOGICAL RESOURCES

INVENTORY AND SENSITIVITY

RESOURCE INVENTORY	IMPACT LEVELS
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)	High
Very High	Moderate
High	Low
Moderate/Undetermined	Not Identifiable
Low	
Very Low	

GENERAL REFERENCE FEATURES	
Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
Resource Data:
Impact: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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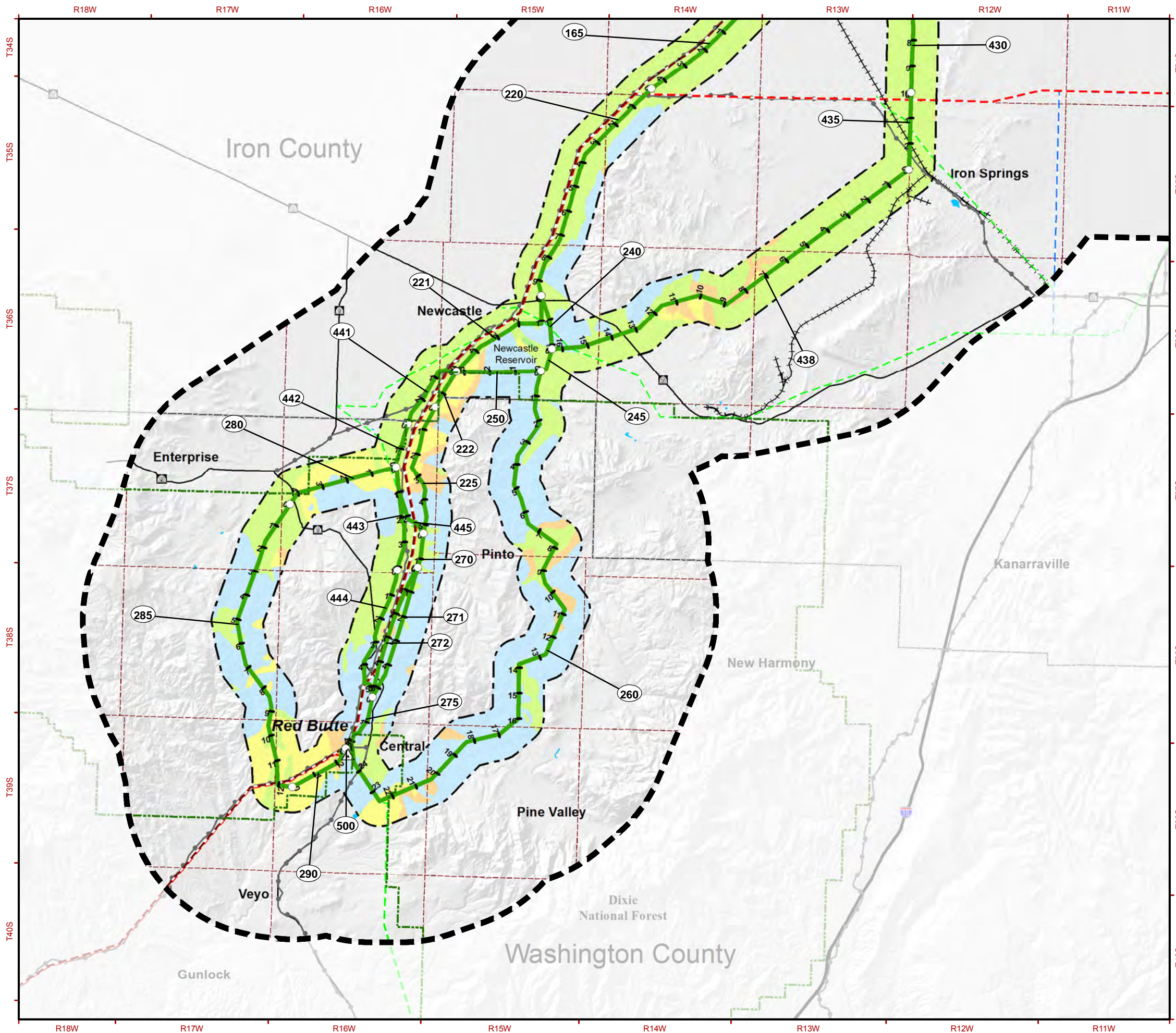


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SIGURD TO RED BUTTE NO. 2

345kV TRANSMISSION PROJECT





MAP MV - 9d

PALEONTOLOGICAL RESOURCES INVENTORY AND SENSITIVITY

RESOURCE INVENTORY

POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)

- Very High
- High
- Moderate/Undetermined
- Low
- Very Low

IMPACT LEVELS

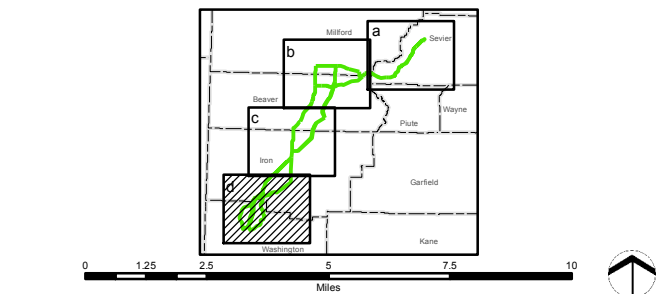
- High
- Moderate
- Low
- Not Identifiable

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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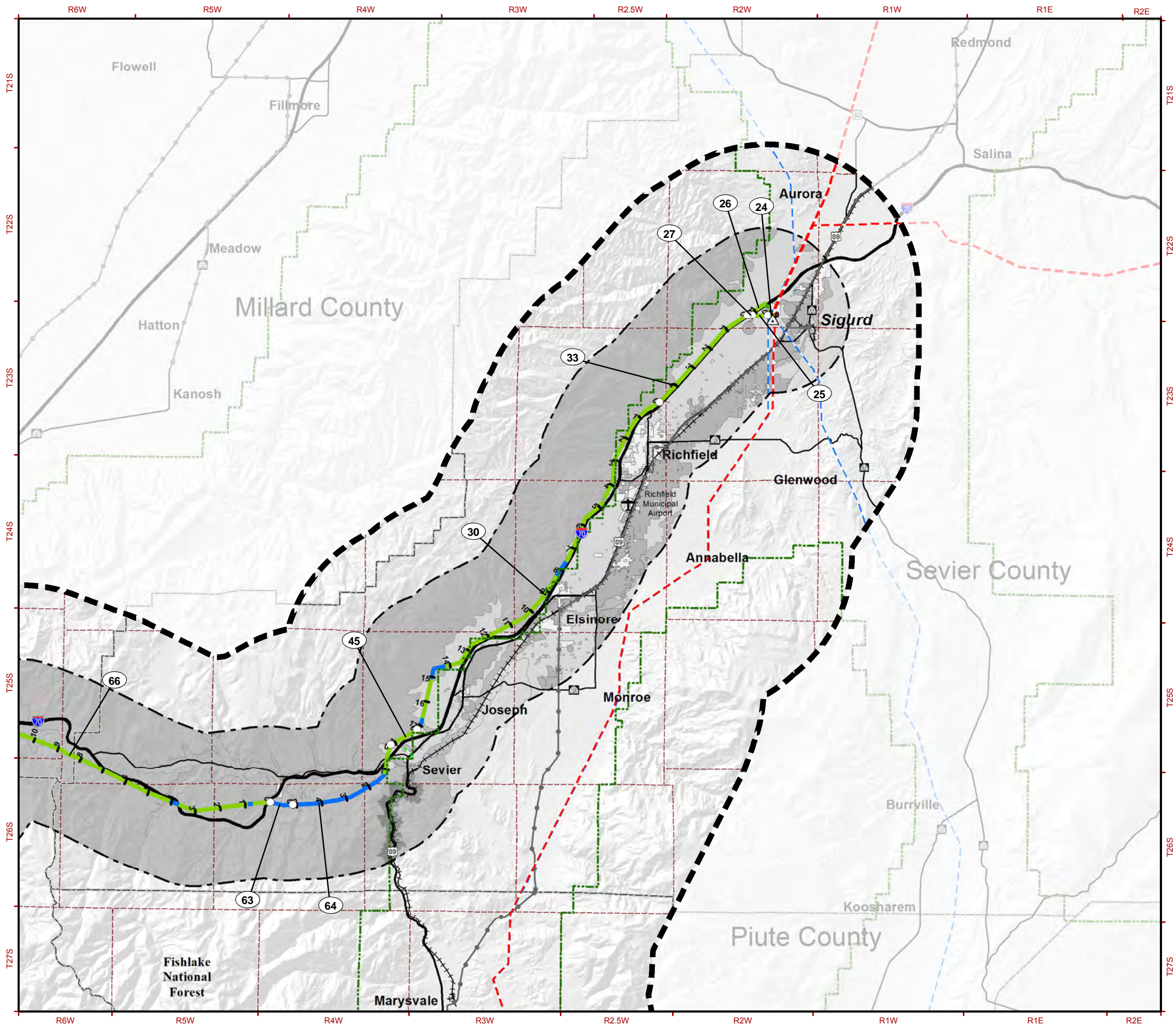
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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT



Path: Q:\SRBF\EIS\Apps\FEIS_2_Apps\FEIS_SRB_Earth_Paleontological.mxd

Visual Resources



MAP MV – 10a
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

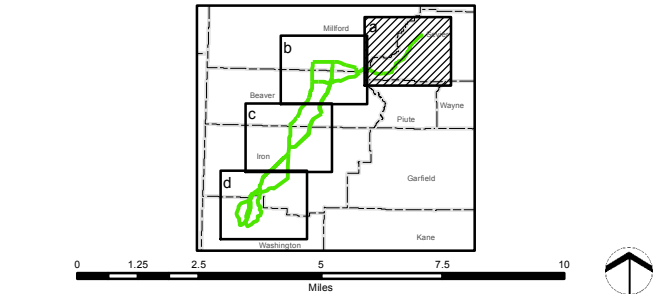
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

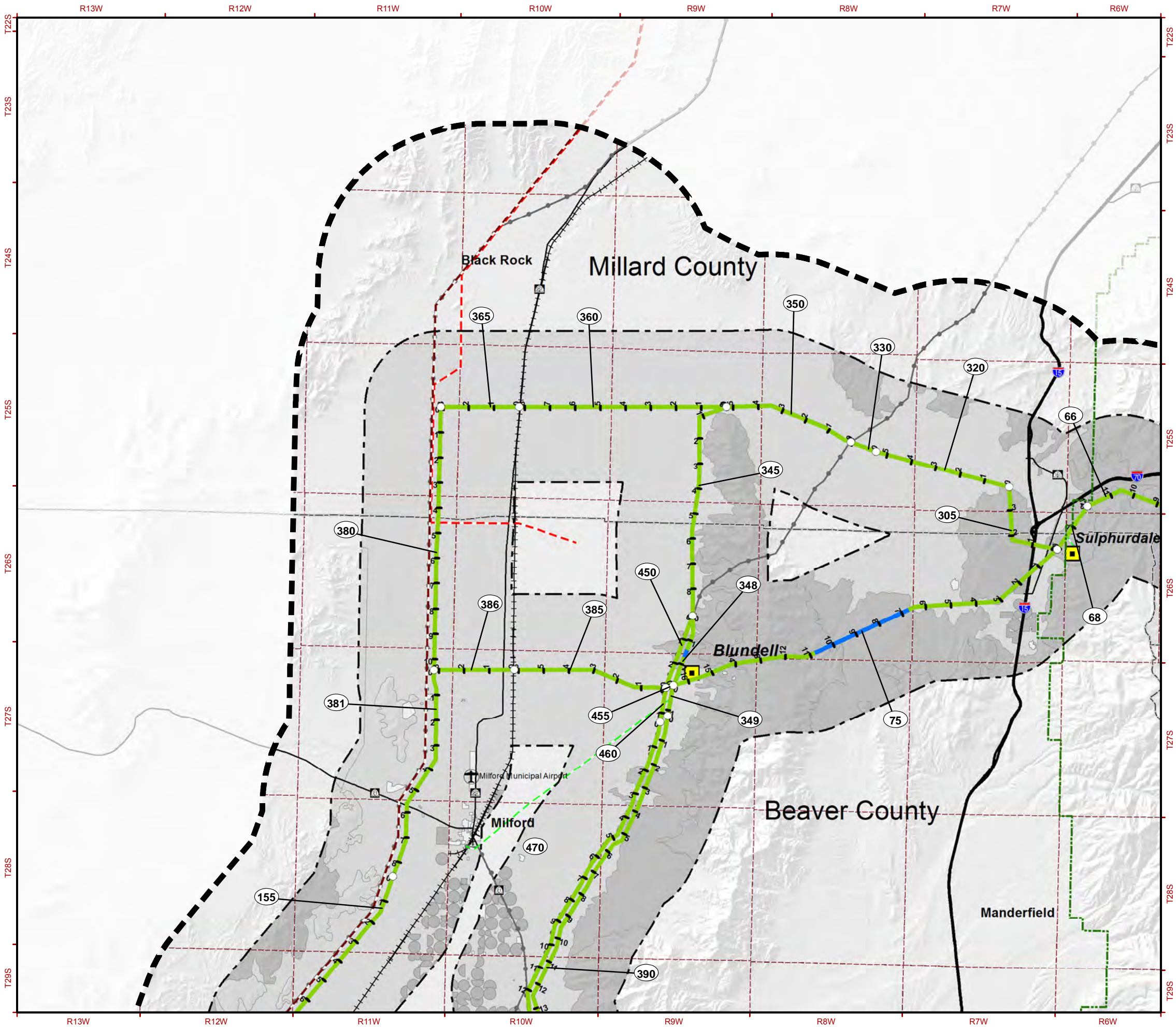
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Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 10b
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

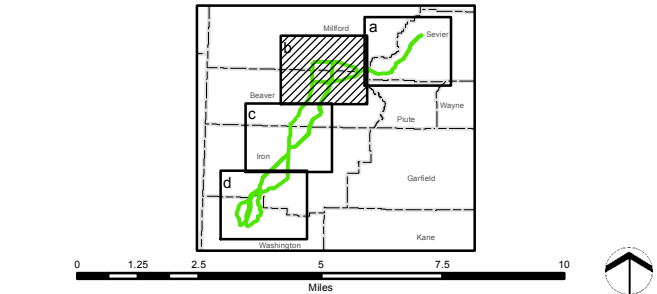
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

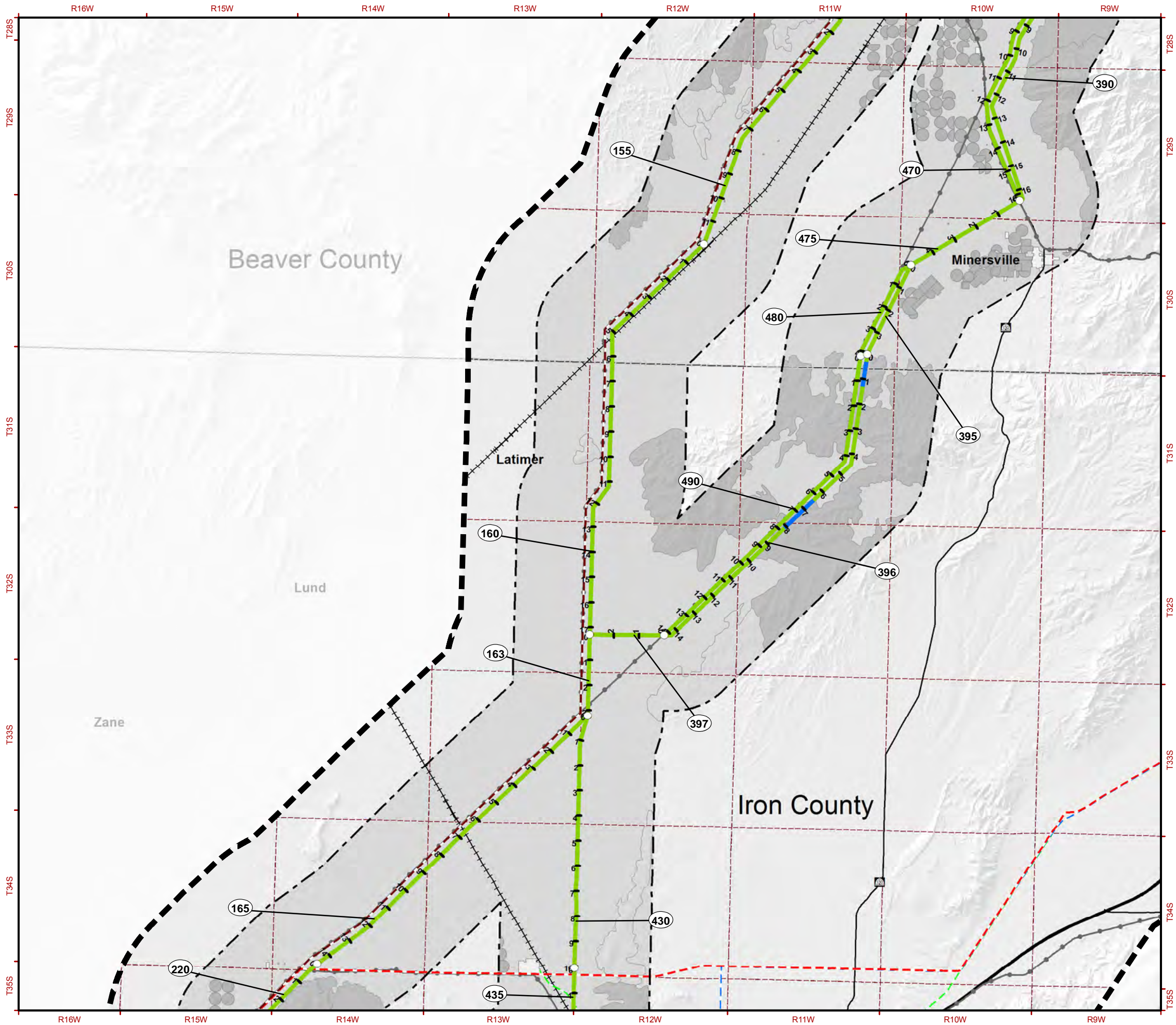
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U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 10c

LANDSCAPE SCENERY

INVENTORY AND IMPACTS

RESOURCE INVENTORY

**SCENIC QUALITY/
SCENIC ATTRACTIVENESS**

A

B

C

Developed

IMPACT LEVELS

High

Moderate/High

Moderate

Low/Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

SOURCES:

Resource Data:

Impact: EPG, 2010

Scenic Quality/Scenic Attractiveness: EPG, 2010

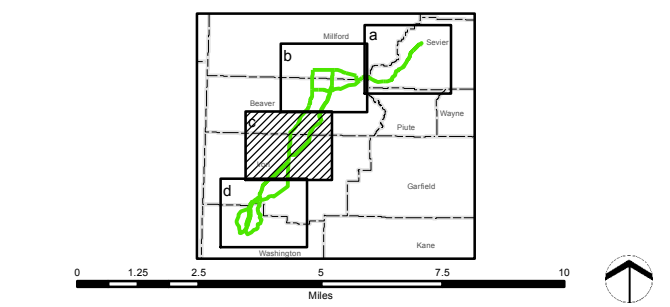
Base Data:

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U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

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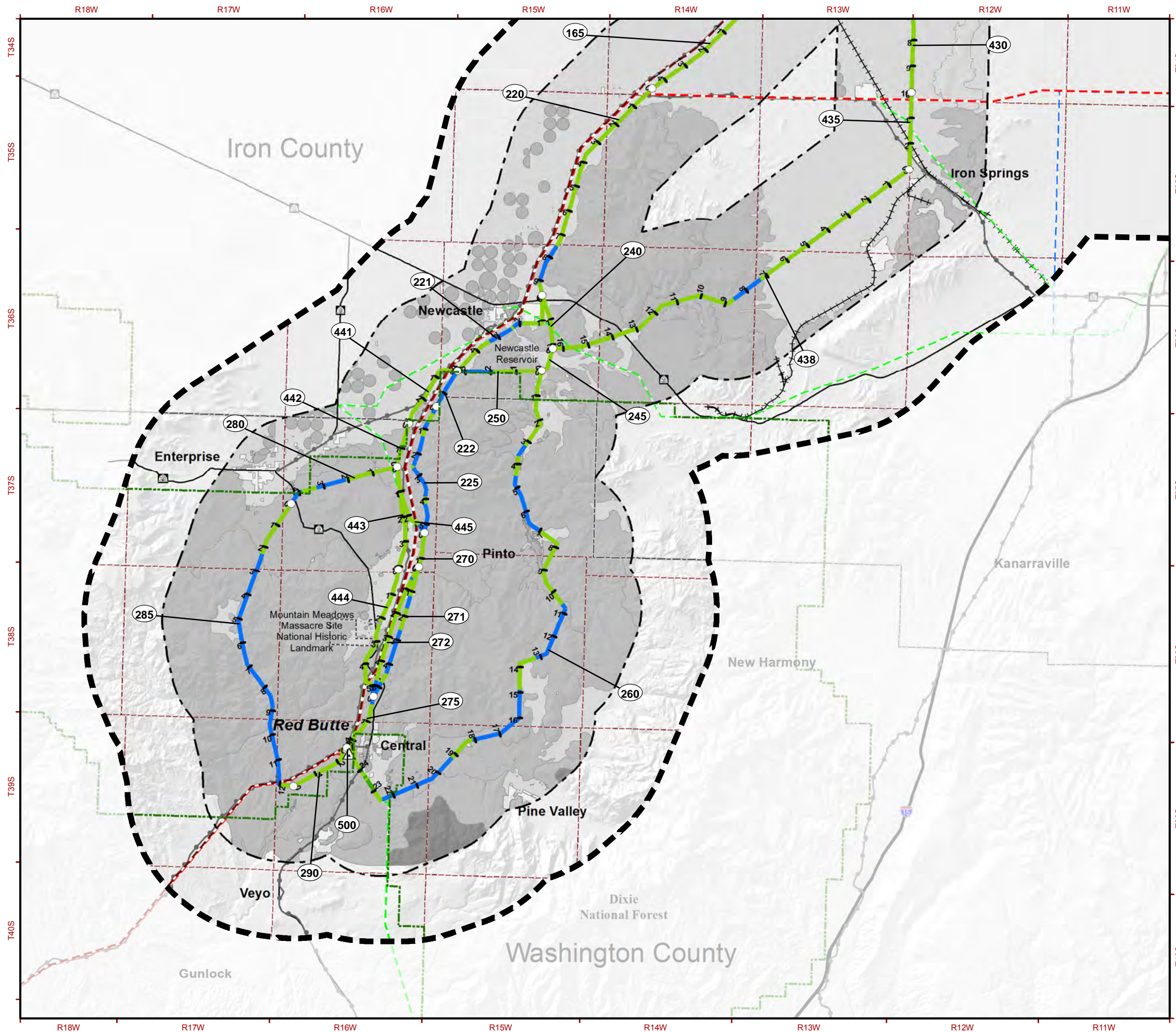
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345kV TRANSMISSION PROJECT





MAP MV - 10d LANDSCAPE SCENERY INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/ SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

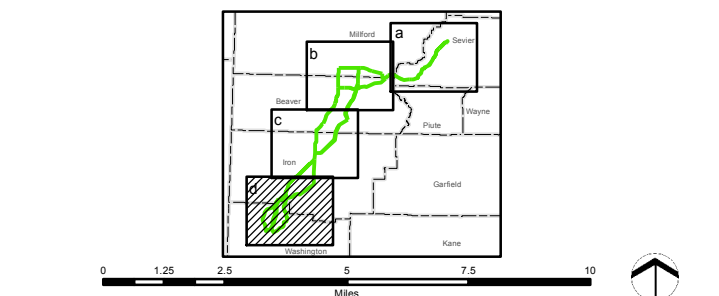
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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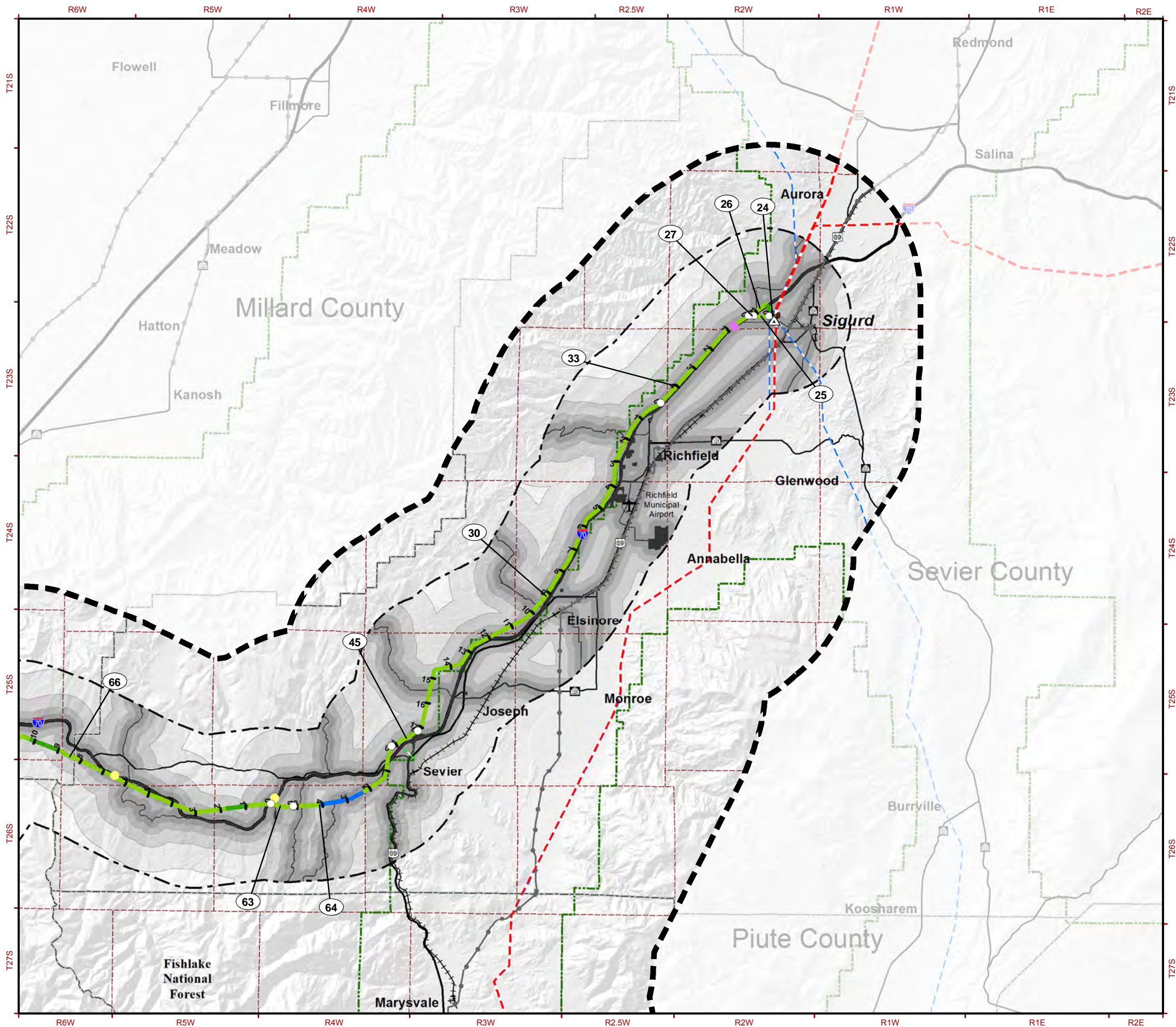


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MAP MV – 11a
MODERATE SENSITIVITY VIEWERS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER
DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

SENSITIVE VIEWERS LOCATIONS

- Moderate

KEY OBSERVATION POINTS

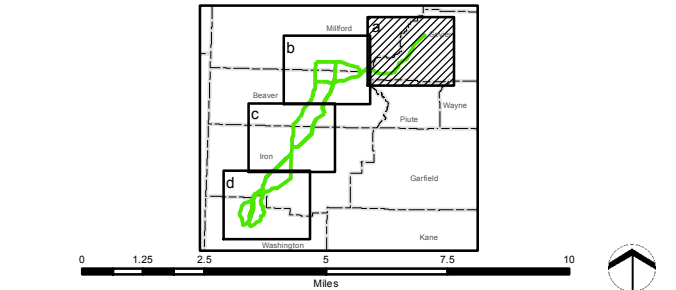
- Simulation and Key Observation Point
- Key Observation Point Only

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

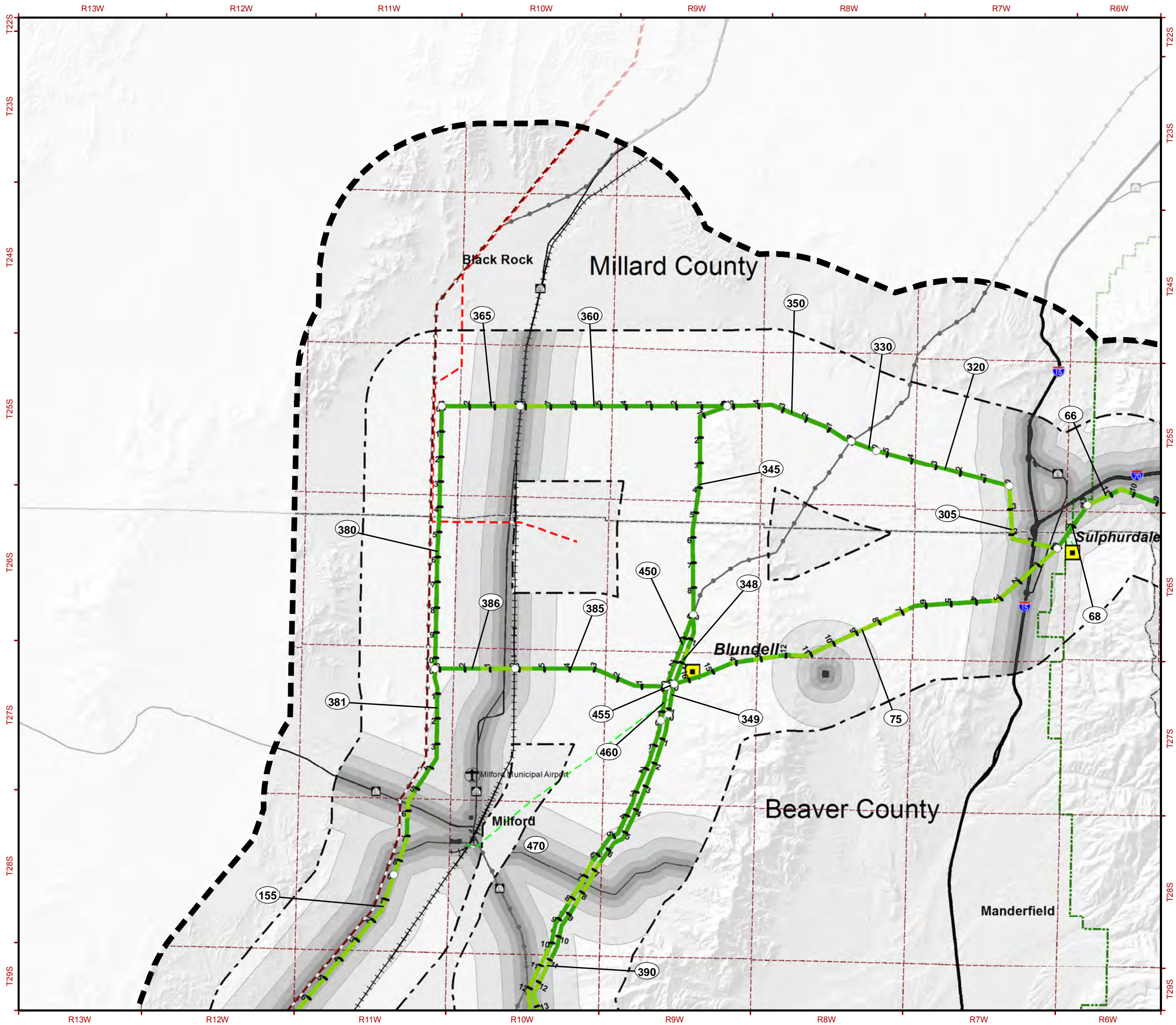
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Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 11b
MODERATE SENSITIVITY VIEWERS
INVENTORY AND IMPACTS

RESOURCE INVENTORY
SENSITIVE VIEWER DISTANCE ZONES
0 to 0.25 mile
0.25 to 0.5 mile
0.5 to 1.0 mile
1.0 to 2.0 miles
Over 2.0 miles

IMPACT LEVELS
High
Moderate/High
Moderate
Low/Moderate
Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

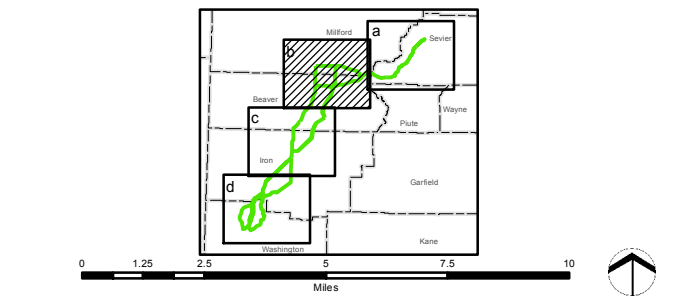
SENSITIVE VIEWERS LOCATIONS
Moderate

KEY OBSERVATION POINTS
Simulation and Key Observation Point
Key Observation Point Only

GENERAL REFERENCE FEATURES

Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	
345kV Transmission Line	
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

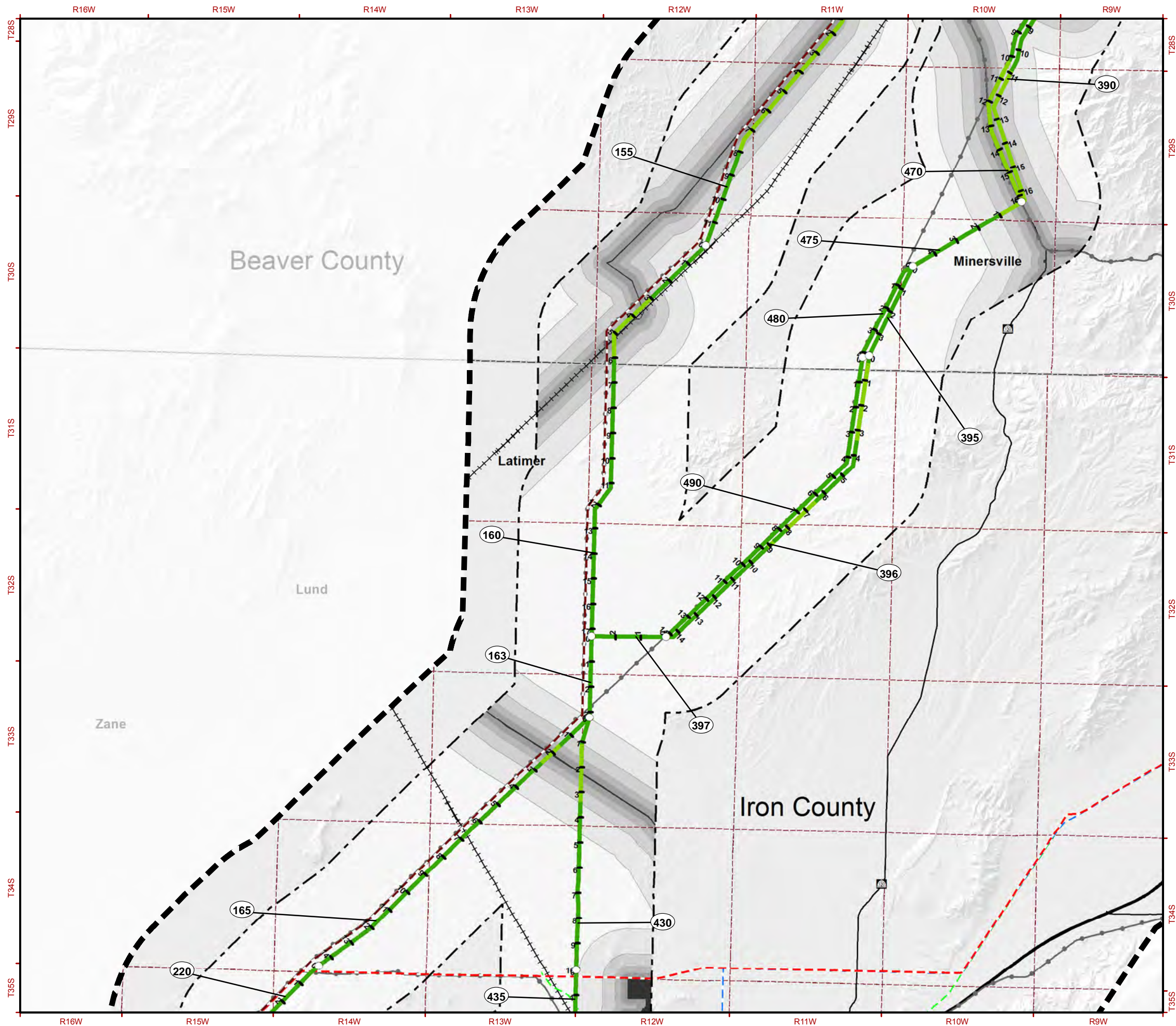
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Resource Data:
Impact: EPG, 2010
Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 11c

MODERATE SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- Moderate

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

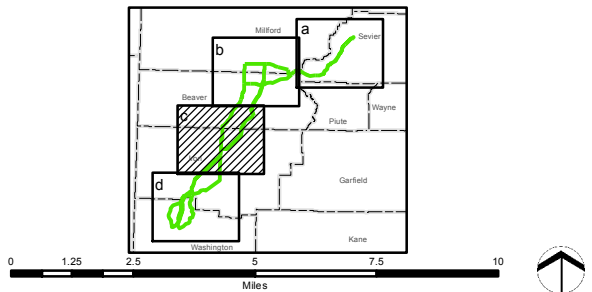
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

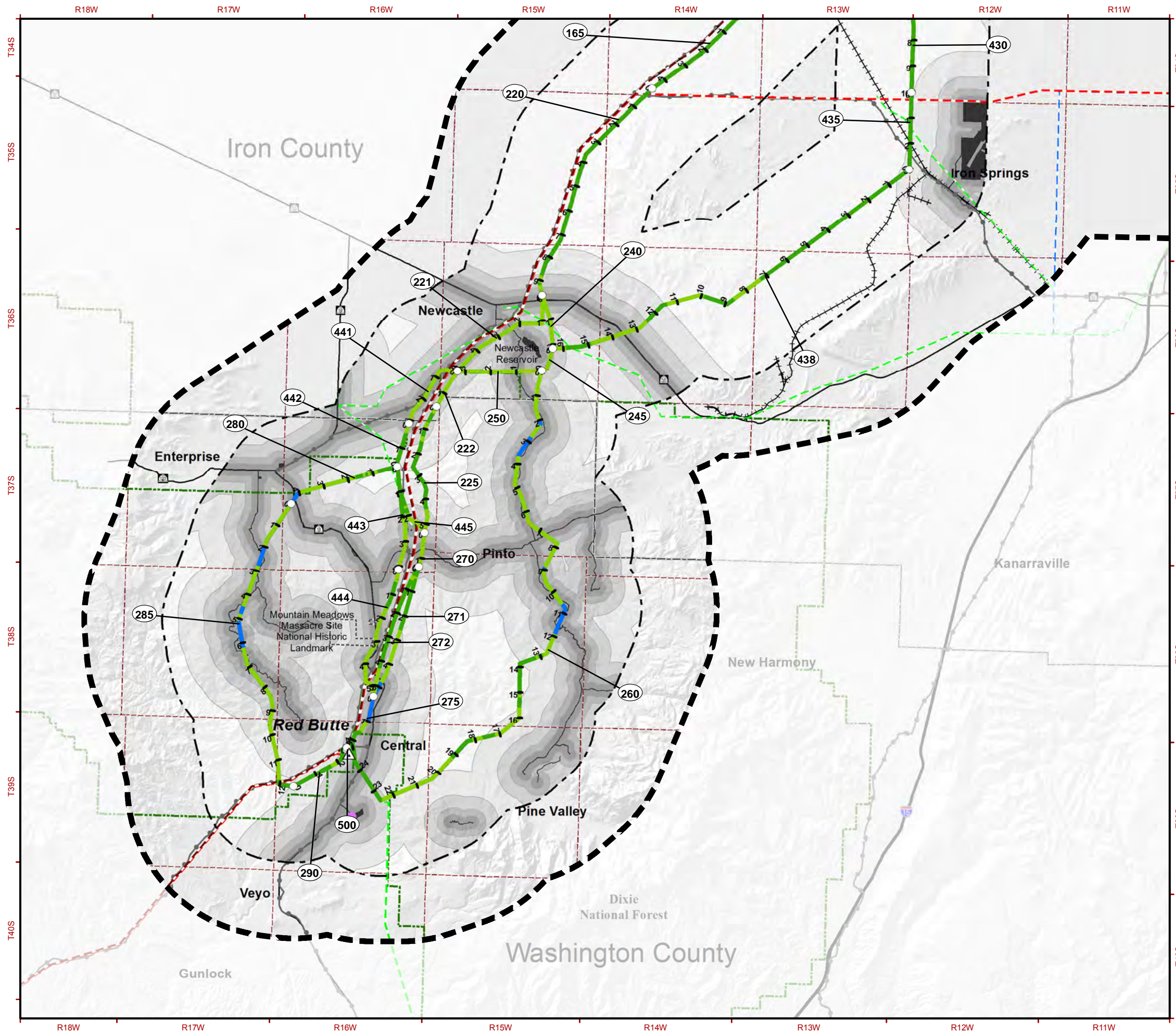
Resource Data:
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Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 11d MODERATE SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- Moderate

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:

Impact: EPG, 2010

Key Observation Points: EPG, 2010

Sensitive Viewer: EPG, 2010

Base Data:

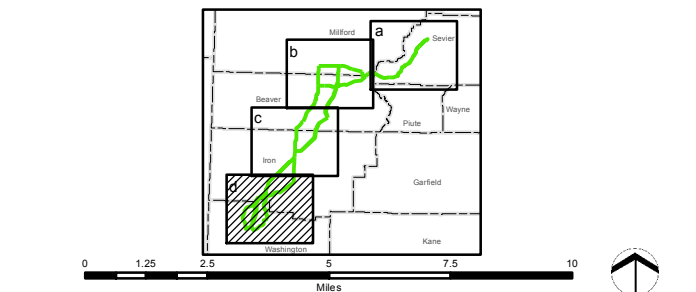
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U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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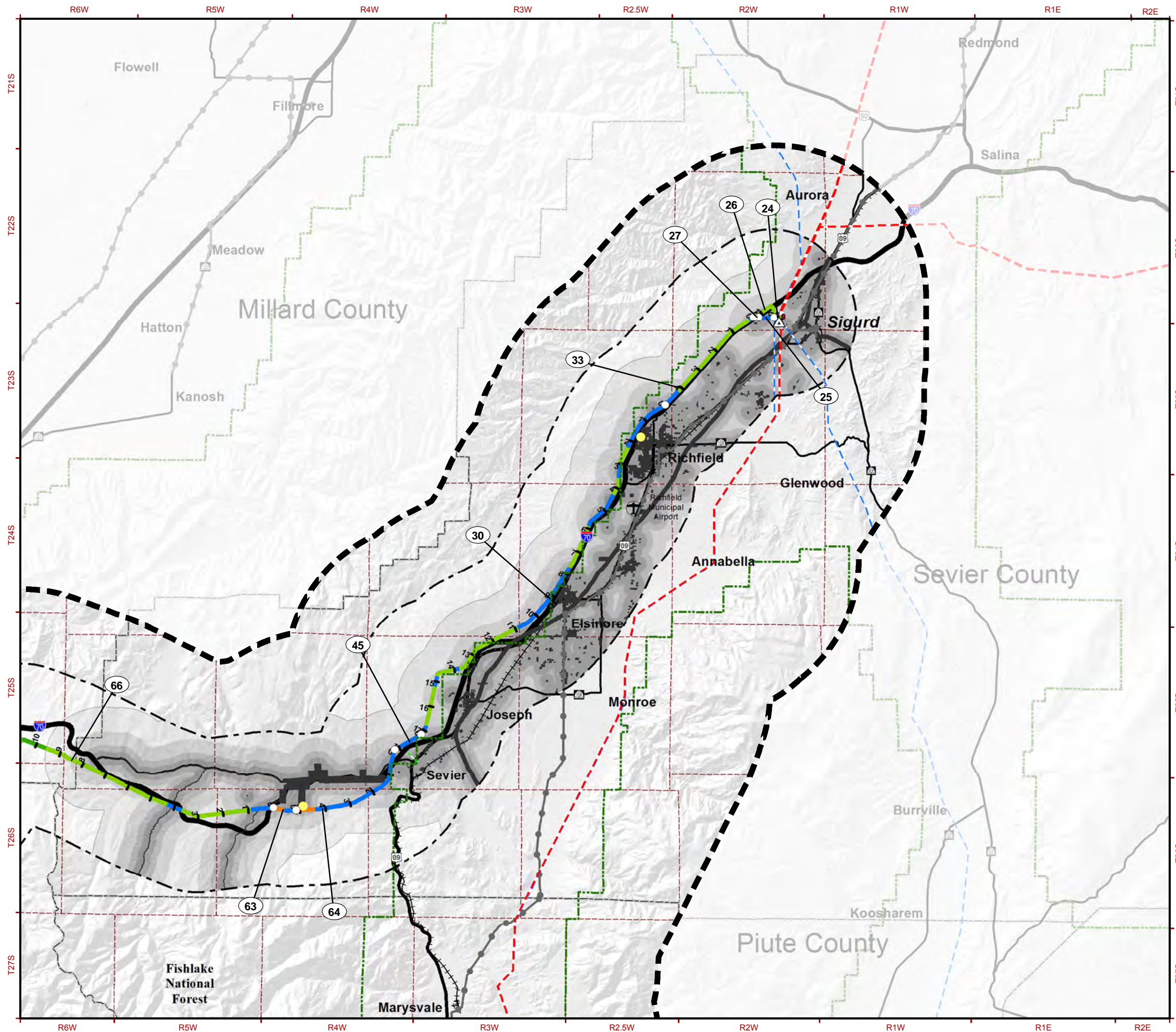


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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT





MAP MV – 12a HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

SENSITIVE VIEWERS LOCATIONS

- High

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:

Impact: EPG, 2010

Key Observation Points: EPG, 2010

Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010

Base Data:

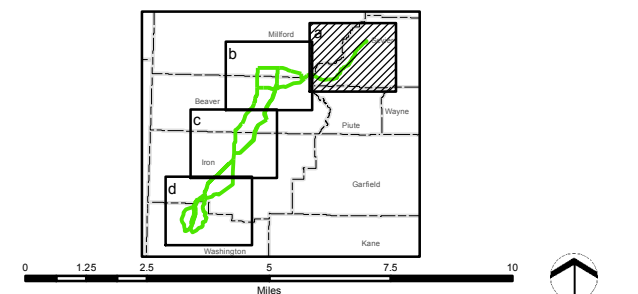
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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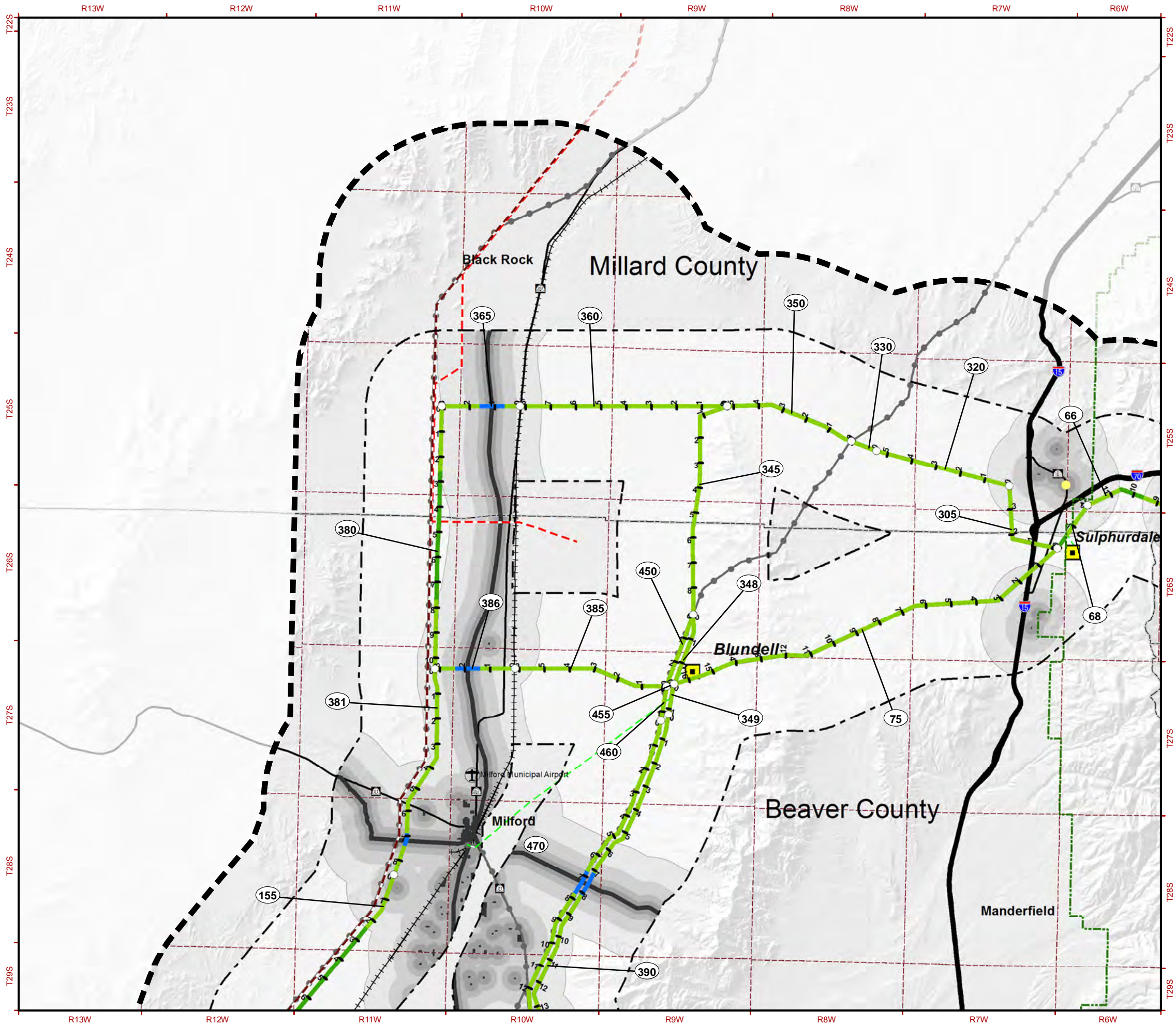


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MAP MV – 12b

HIGH SENSITIVITY VIEWERS

INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER

DISTANCE ZONES

IMPACT LEVELS

SENSITIVE VIEWERS LOCATIONS

KEY OBSERVATION POINTS

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

SOURCES:

Resource Data:

Impact: EPG, 2010

Key Observation Points: EPG, 2010

Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010

Base Data:

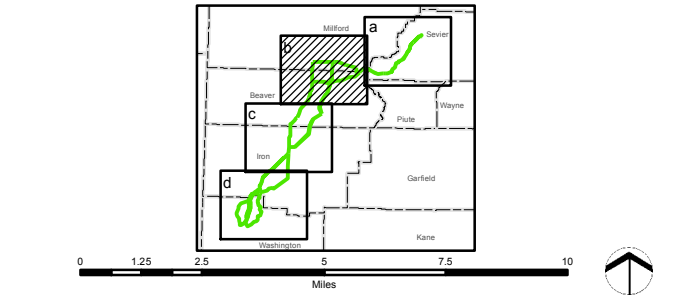
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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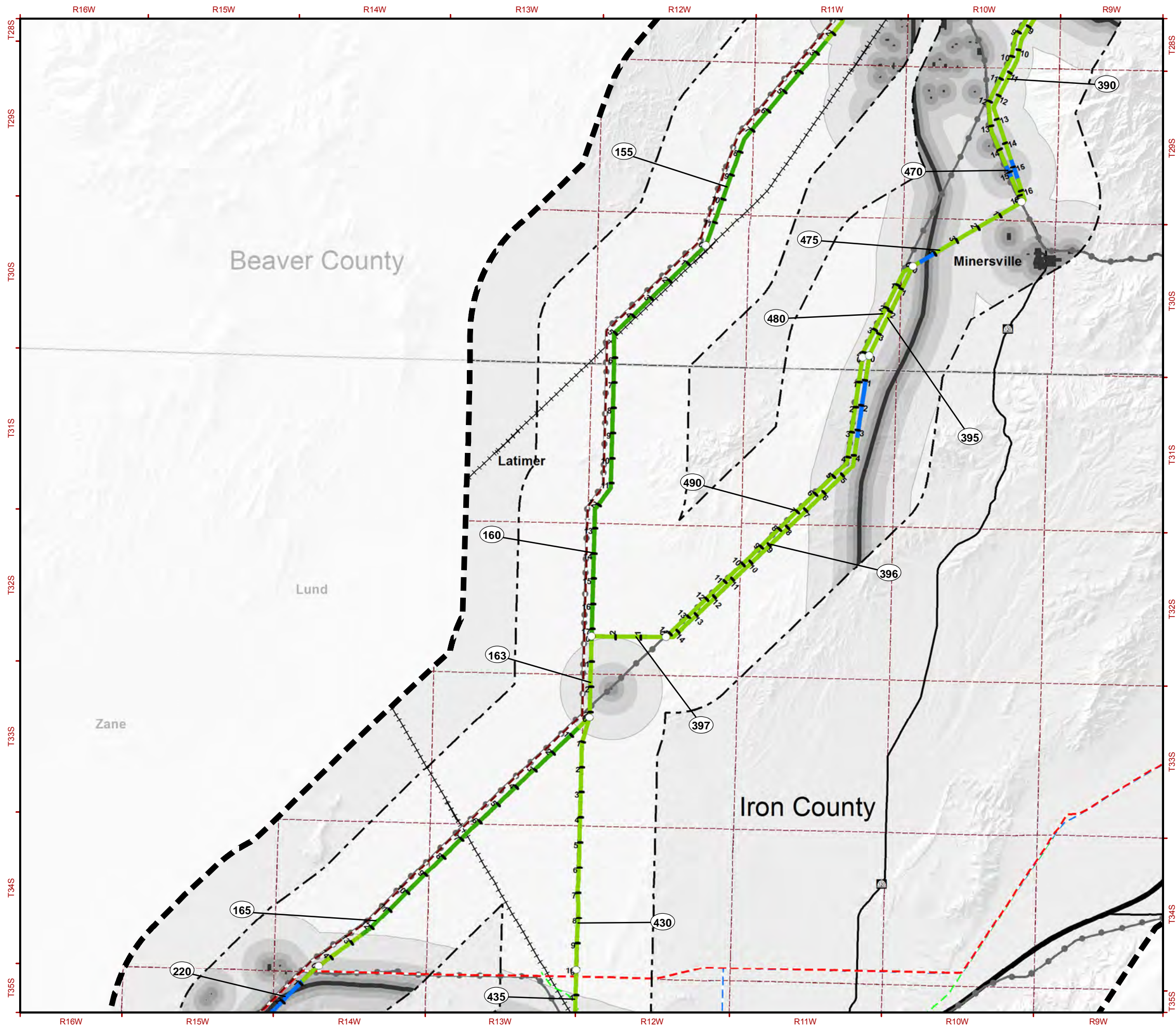


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345kV TRANSMISSION PROJECT





MAP MV – 12c
HIGH SENSITIVITY VIEWERS
INVENTORY AND IMPACTS

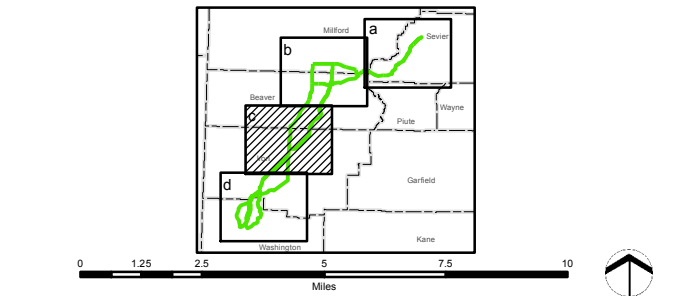
RESOURCE INVENTORY
SENSITIVE VIEWER DISTANCE ZONES
0 to 0.25 mile
0.25 to 0.5 mile
0.5 to 1.0 mile
1.0 to 2.0 miles
Over 2.0 miles
SENSITIVE VIEWERS LOCATIONS
High
KEY OBSERVATION POINTS
Simulation and Key Observation Point
Key Observation Point Only

IMPACT LEVELS
High
Moderate/High
Moderate
Low/Moderate
Low
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	
345kV Transmission Line	
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

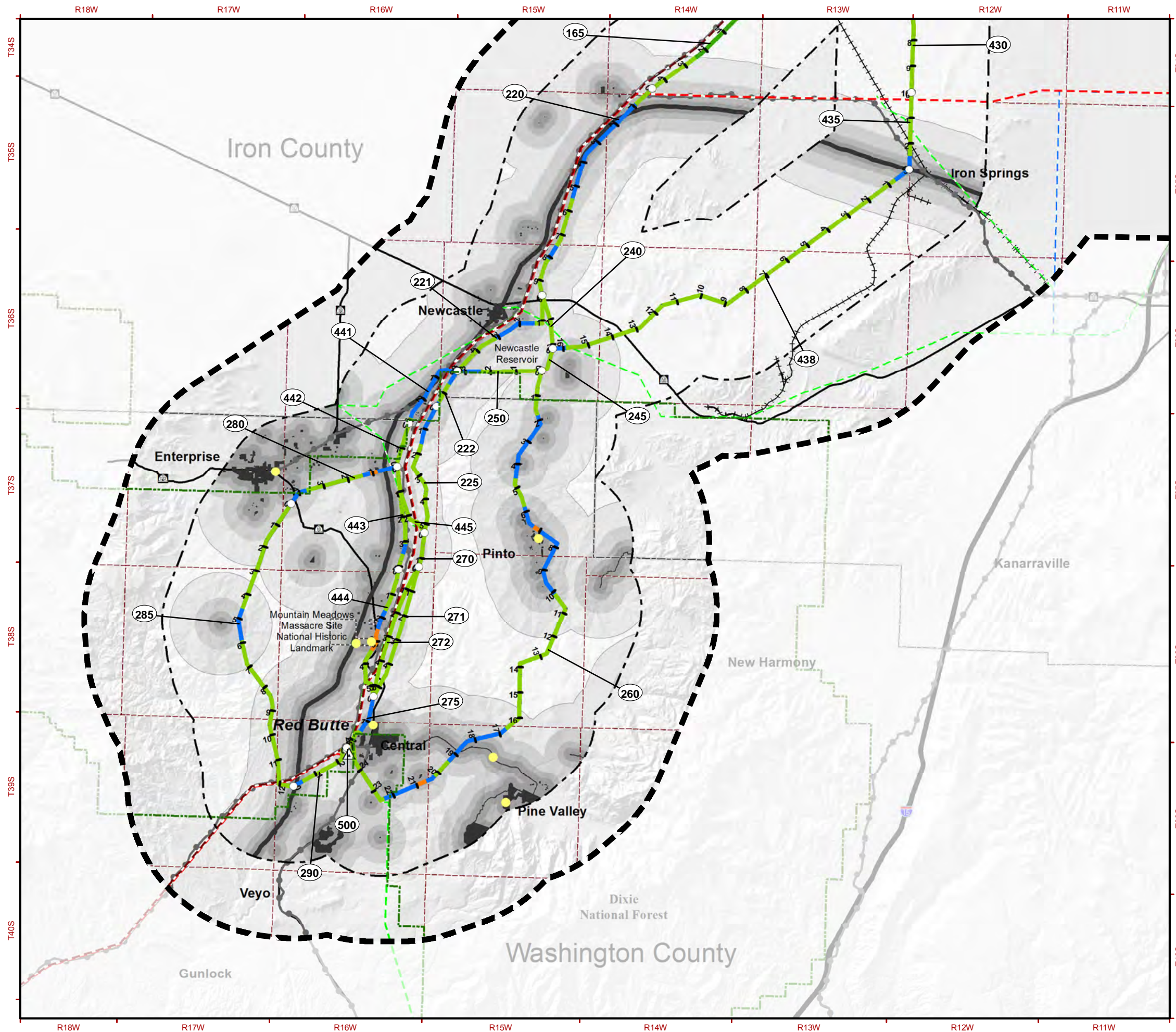
SOURCES:
Resource Data:
Impact: EPG, 2010
Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 12d HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWER DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- High

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

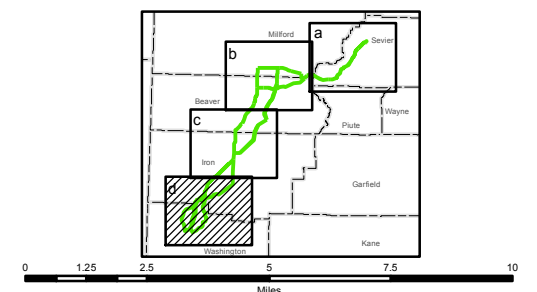
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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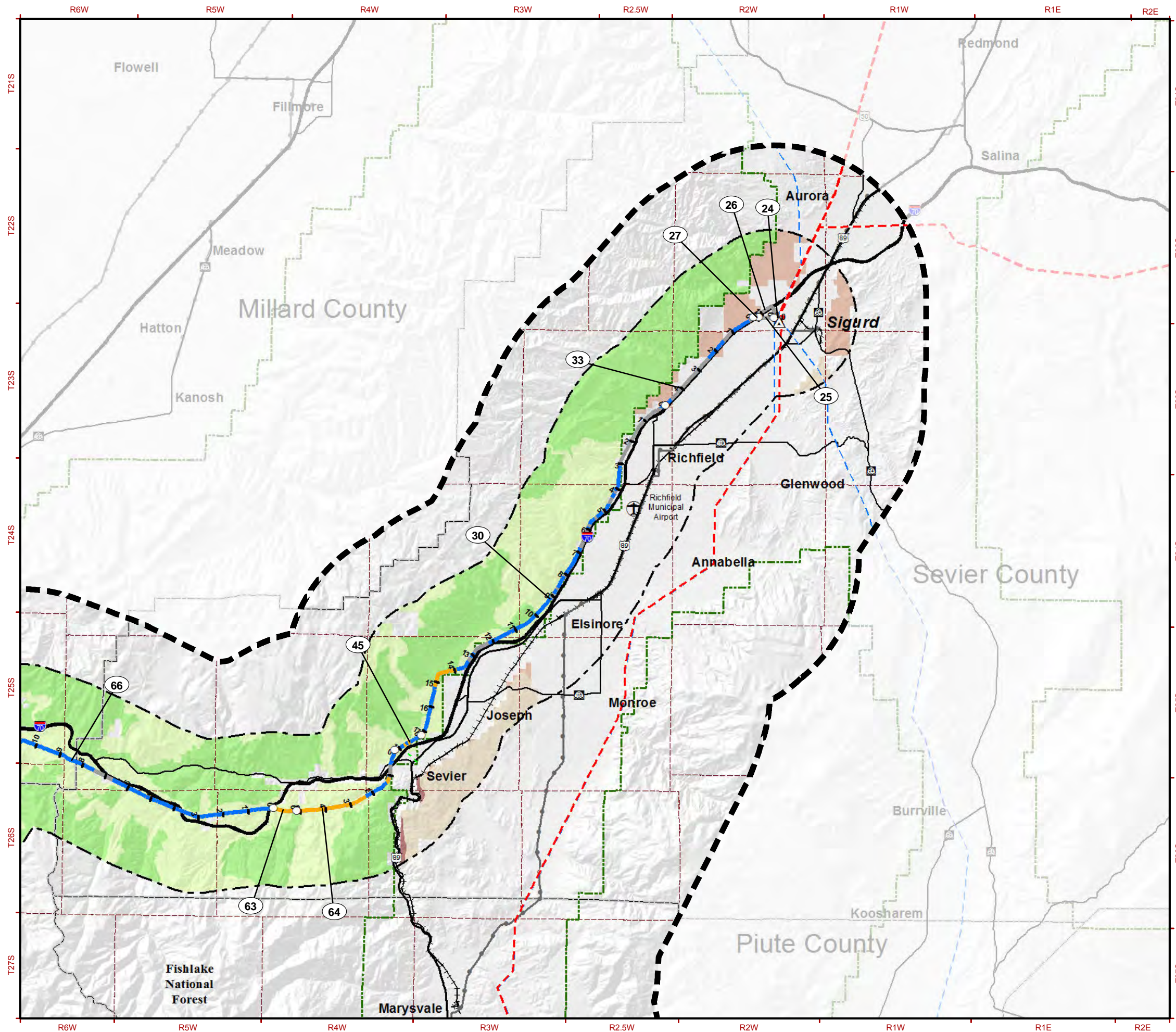


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MAP MV – 13a VISUAL MANAGEMENT OBJECTIVES INVENTORY AND CONSISTENCY

RESOURCE INVENTORY

BLM VISUAL RESOURCE MANAGEMENT (VRM) OBJECTIVES

- Class II
- Class III
- Class IV

Note: No VRM Class I land
present in Project study area.

U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)

- Very High
- High
- Moderate

Note: Fishlake National Forest
SIOs are Draft. Dixie National Forest SIOs
shown are inventory. See Appendix F.

CONSISTENCY

- Consistent
- Not Consistent
- Not Applicable

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

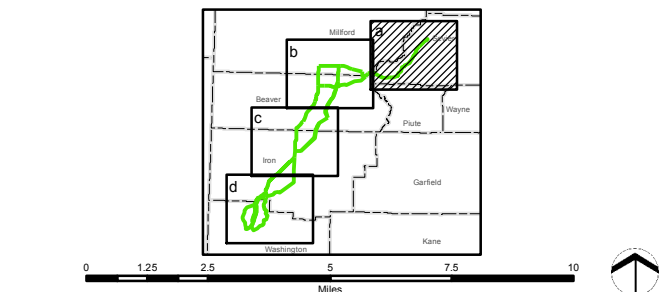
SOURCES:

Resource Data:

Impact: EPG, 2010
VRM: BLM, 2009
SIO: USFS, 2000; USFS, 2007; EPG, 2011

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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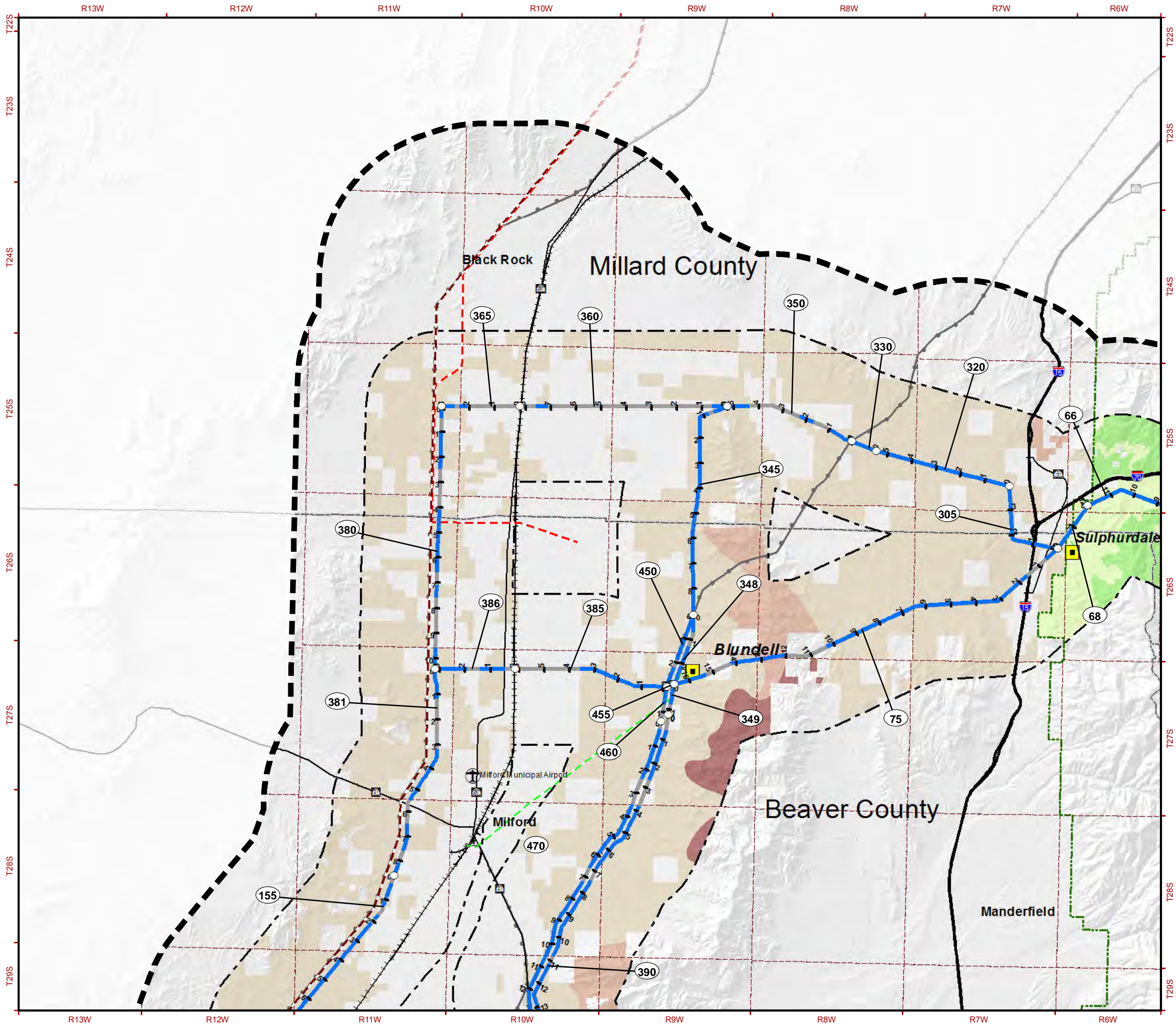


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MAP MV – 13b
VISUAL MANAGEMENT OBJECTIVES
INVENTORY AND CONSISTENCY

RESOURCE INVENTORY

BLM VISUAL RESOURCE
MANAGEMENT (VRM)
OBJECTIVES

- Class II
- Class III
- Class IV

Note: No VRM Class I land
present in Project study area.

U.S. FOREST SERVICE
SCENIC INTEGRITY
OBJECTIVES (SIO)

- Very High
- High
- Moderate

Note: Fishlake National Forest
SIOs are Draft. Dixie National Forest SIOs
shown are inventory. See Appendix F.

CONSISTENCY

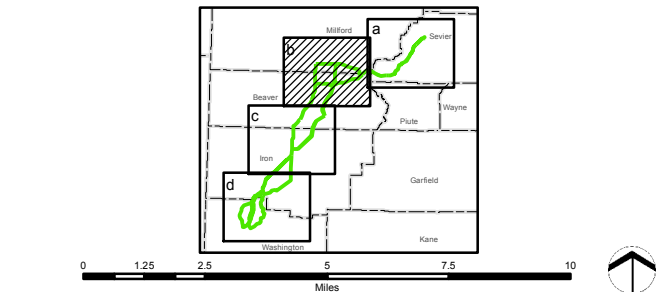
- Consistent
- Not Consistent
- Not Applicable

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

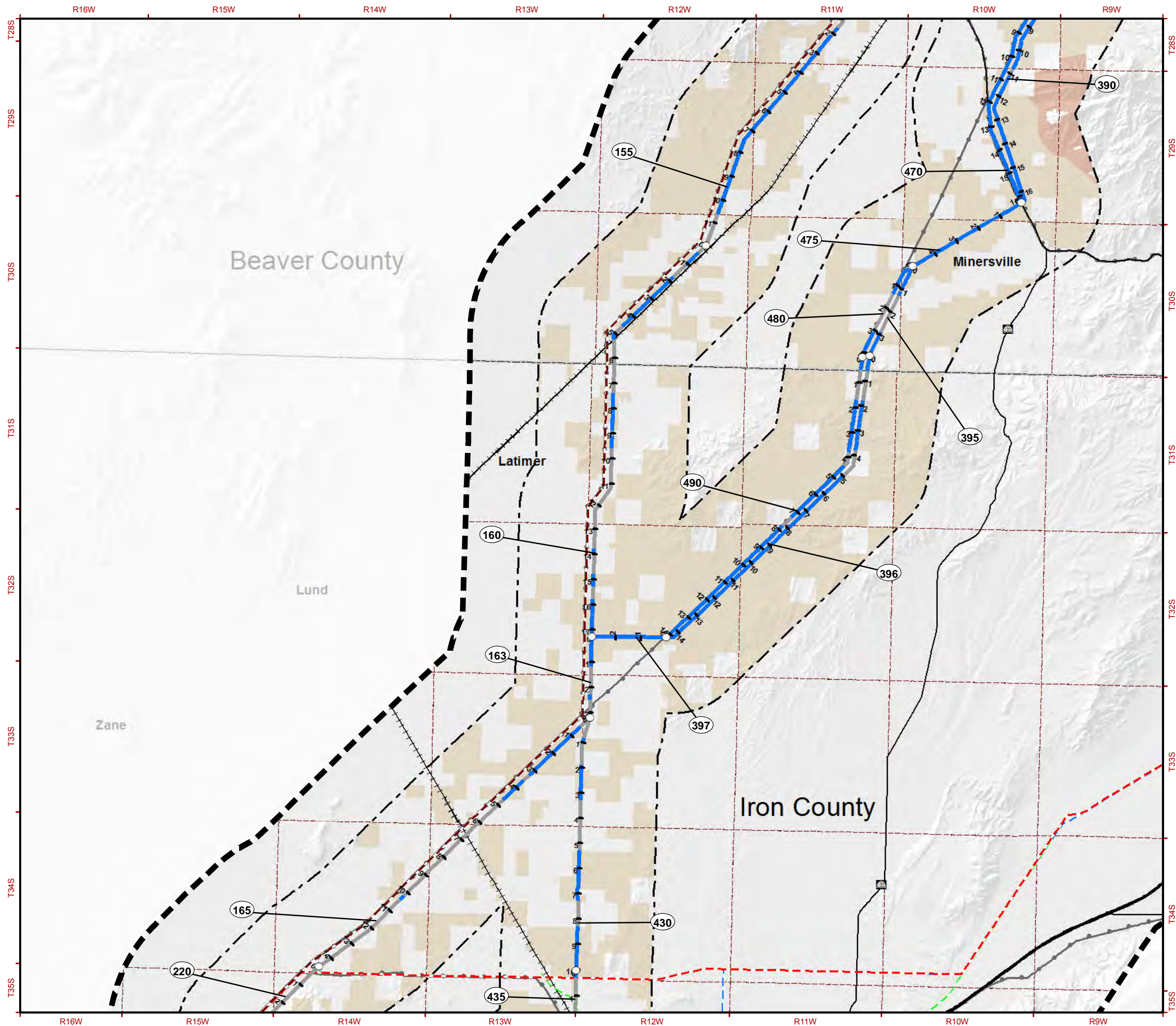
Resource Data:
Impact: EPG, 2010
VRM: BLM, 2009
SIO: USFS, 2000; USFS, 2007; EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 13c

VISUAL MANAGEMENT OBJECTIVES INVENTORY AND CONSISTENCY

RESOURCE INVENTORY

BLM VISUAL RESOURCE MANAGEMENT (VRM) OBJECTIVES

- Class II
- Class III
- Class IV

Note: No VRM Class I land present in Project study area.

U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)

- Very High
- High
- Moderate

Note: Fishlake National Forest SIOs are Draft. Dixie National Forest SIOs shown are inventory. See Appendix F.

CONSISTENCY

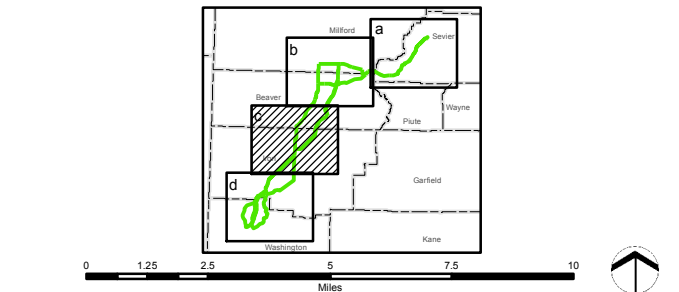
- Consistent
- Not Consistent
- Not Applicable

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

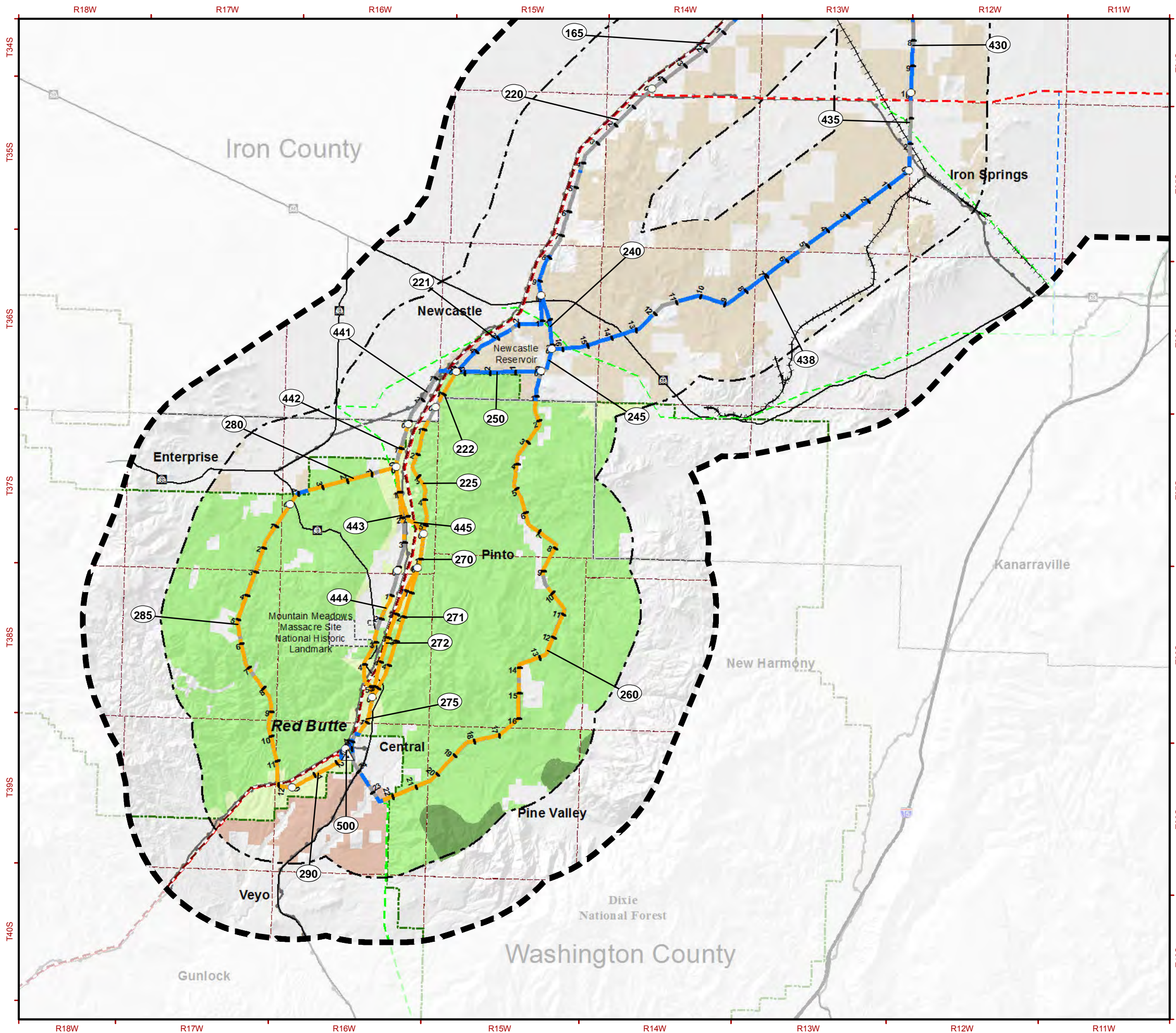
Resource Data:
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VRM: BLM, 2009
SIO: USFS, 2000; USFS, 2007; EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 13d

VISUAL MANAGEMENT OBJECTIVES INVENTORY AND CONSISTENCY

RESOURCE INVENTORY

BLM VISUAL RESOURCE MANAGEMENT (VRM) OBJECTIVES

- Class II
- Class III
- Class IV

Note: No VRM Class I land present in Project study area.

U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)

- Very High
- High
- Moderate

Note: Fishlake National Forest SIOs are Draft. Dixie National Forest SIOs shown are inventory. See Appendix F.

CONSISTENCY

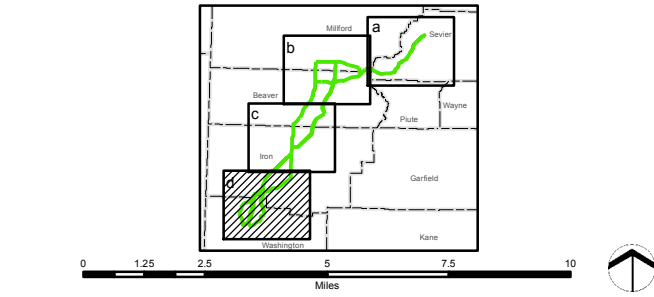
- Consistent
- Not Consistent
- Not Applicable

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
VRM: BLM, 2009
SIO: USFS, 2000; USFS, 2007; EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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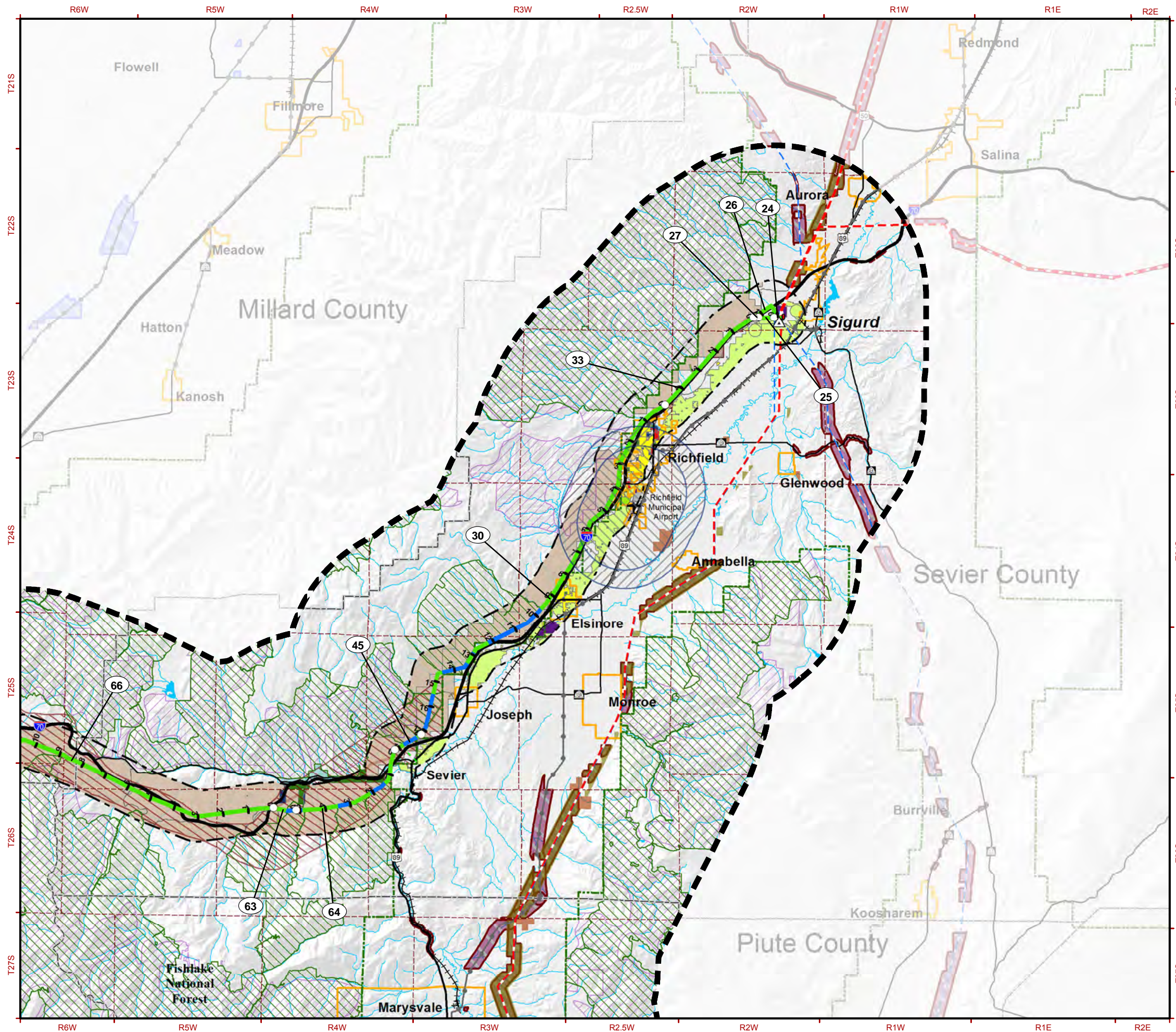


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Land Use and Recreation Resources



MAP MV – 14a EXISTING LAND USE INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped
- Wind Farm
- UNEV Pipeline

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Unroaded/Undeveloped
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WWEC All; Electric-only
- Fishlake NF Utility Window
- Washington County Utility Corridor
- BLM Proposed Surface Corridor
- BLM Designated Surface Corridor

IMPACT LEVELS

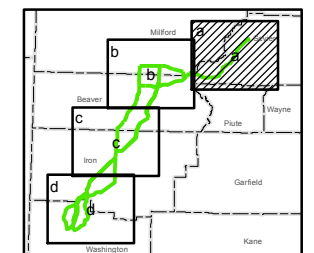
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
Millard Wind Farm: CH2MHILL, 2011
WWEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County
RMP Utility Corridor: BLM, EPG, 2009; Washington County Utility Corridor; Washington County, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RTA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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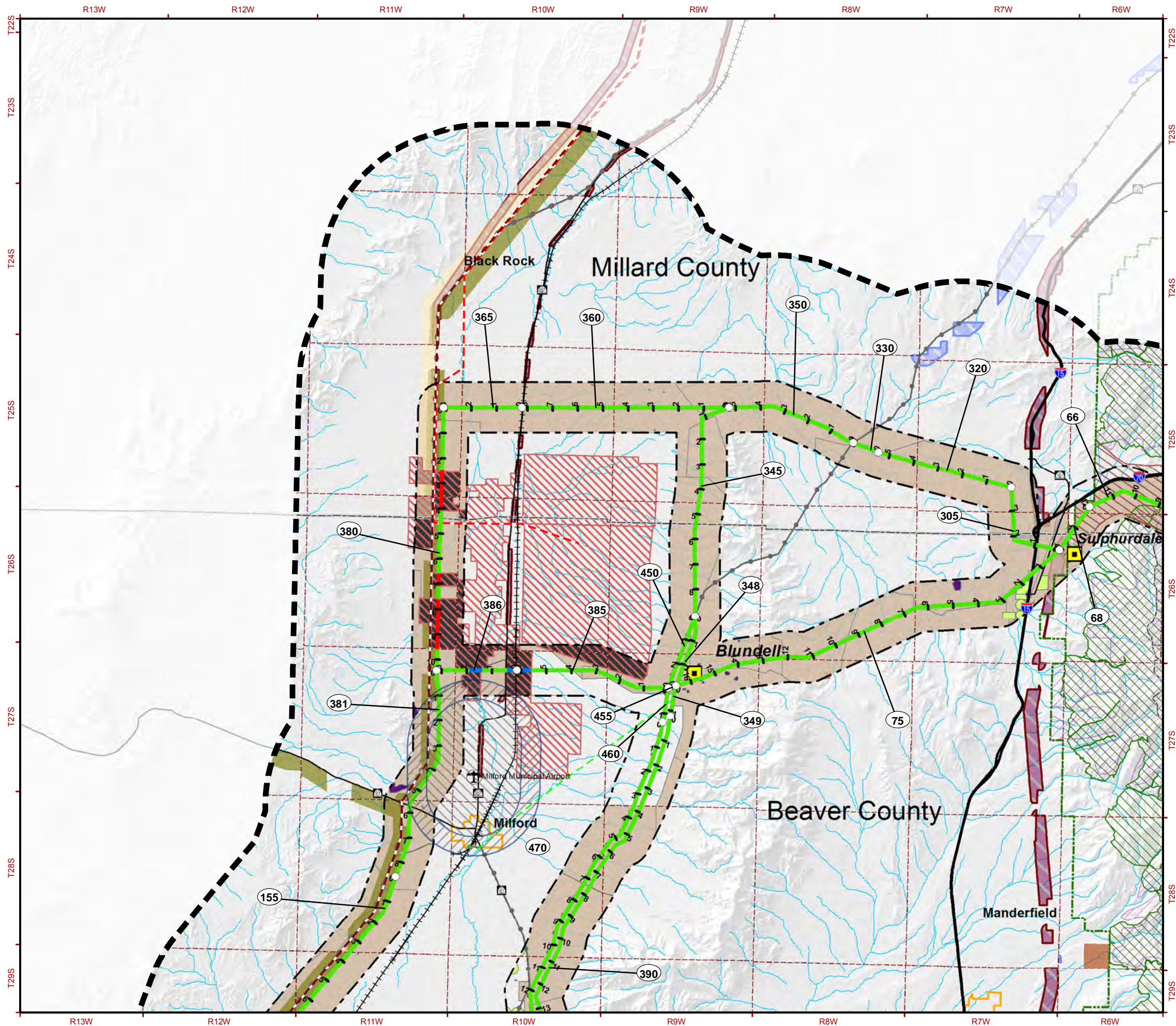
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MAP MV – 14b

EXISTING LAND USE

INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped
- Wind Farm
- UNEV Pipeline

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Unroaded/Undeveloped
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WVEC All Electric-only
- Fishlake NF Utility Window
- Washington County Utility Corridor
- BLM Proposed Surface Corridor
- BLM Designated Surface Corridor

IMPACT LEVELS

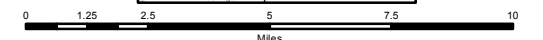
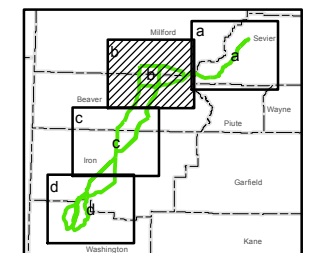
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
Milford Wind Farm: CH2MHILL, 2011
WVEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County
RMP Utility Corridor: BLM, EPG, 2009; Washington County Utility Corridor; Washington County, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RTA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1998; POWERmap, powermap.platts.com
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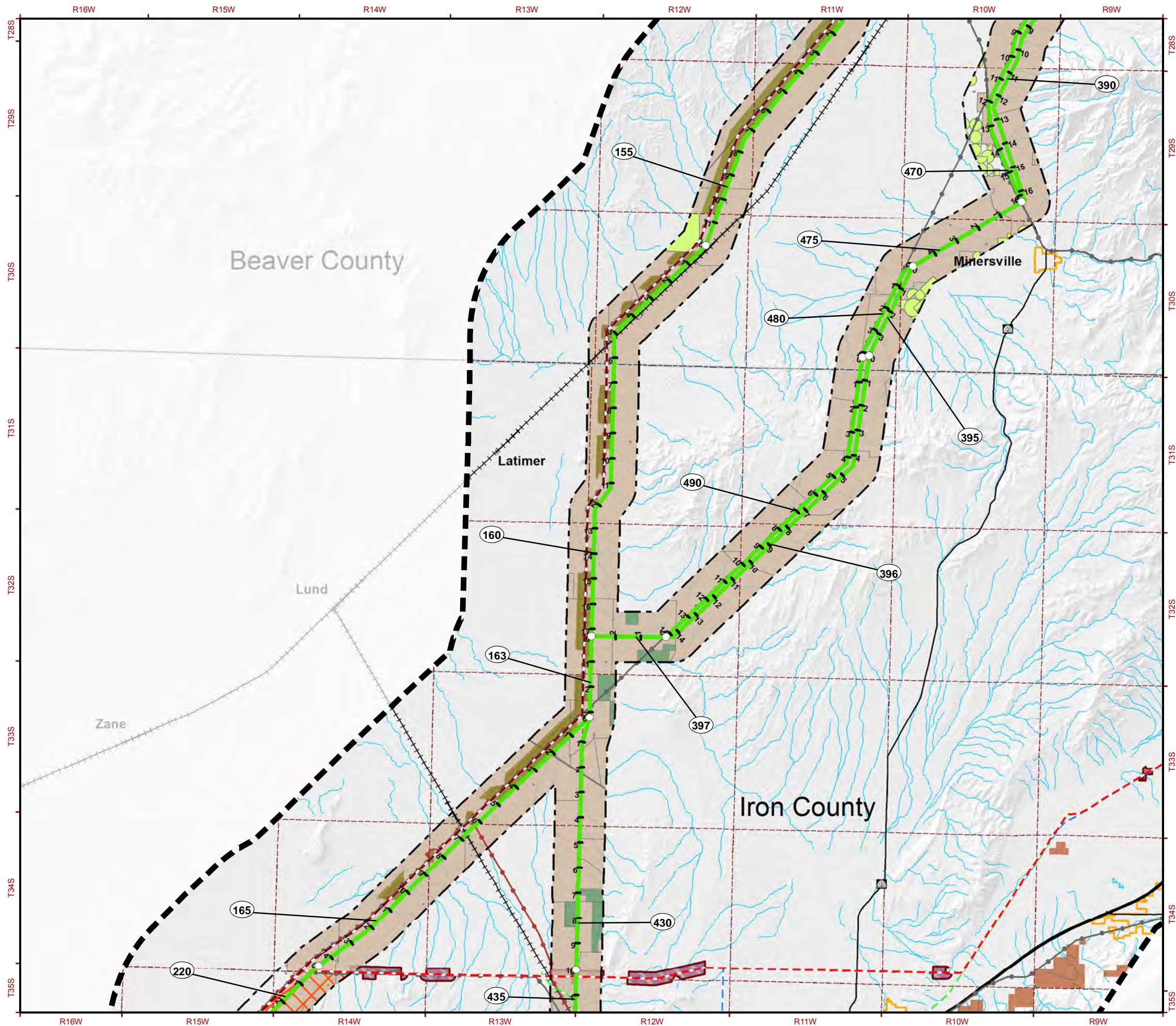
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MAP MV – 14c
EXISTING LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped
- Wind Farm
- UNEV Pipeline

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Unroaded/Undeveloped
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WWEC All; Electric-only
- Fishlake NF Utility Window
- Washington County Utility Corridor
- BLM Proposed Surface Corridor
- BLM Designated Surface Corridor

IMPACT LEVELS

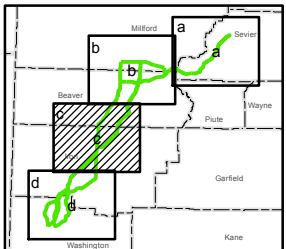
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
Millard Wind Farm: CH2MHILL, 2011
WWEC Utility Corridor: Argonne National Laboratory, 2008, USFS, 2006, Millard County
RMP Utility Corridor: BLM, EPG, 2009; Washington County Utility Corridor, Washington County, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RTA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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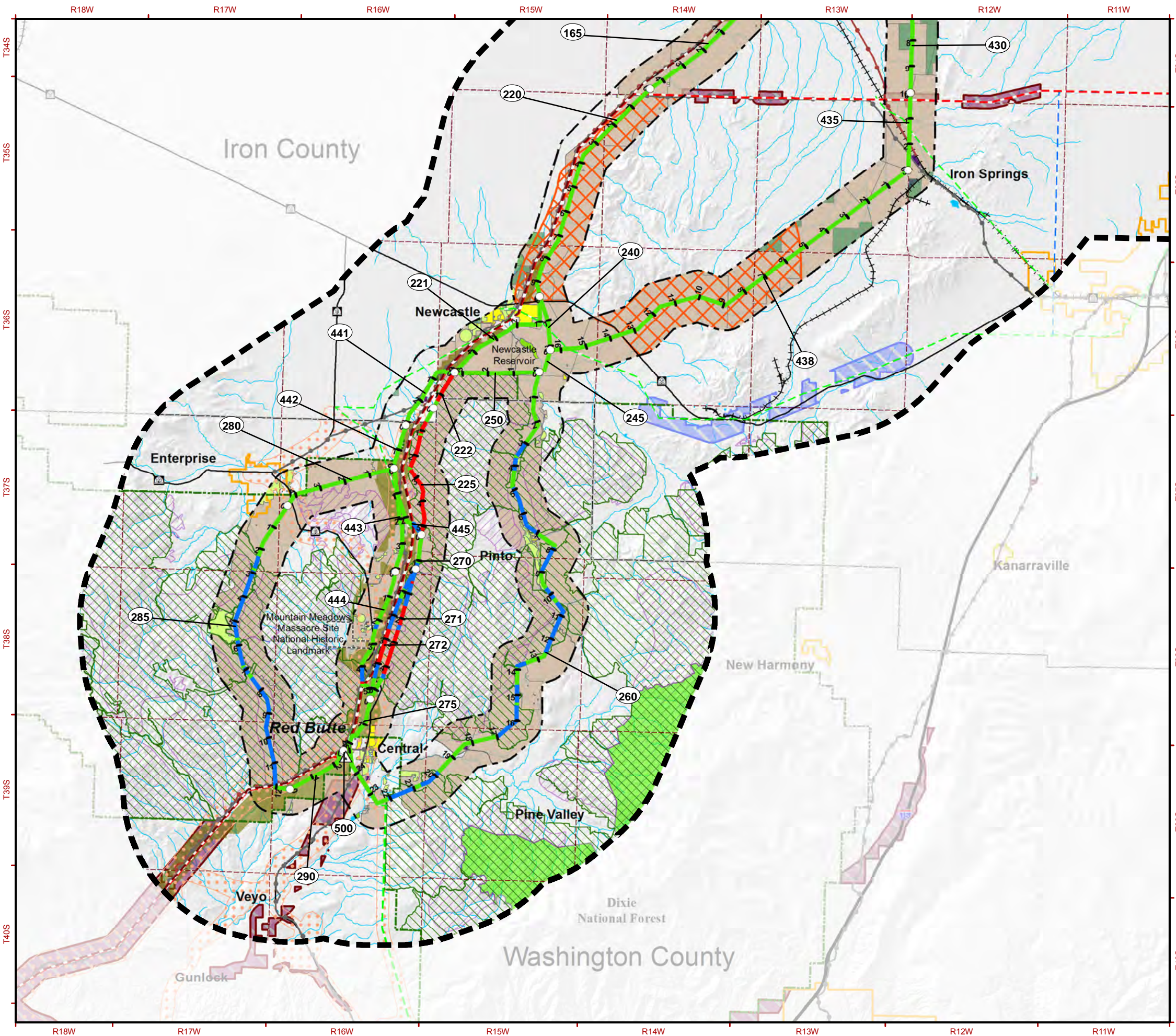


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MAP MV – 14d EXISTING LAND USE INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped
- Wind Farm
- UNEV Pipeline

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Unroaded/Undeveloped
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WVEC All; Electric-only
- Fishlake NF Utility Window
- Washington County Utility Corridor
- BLM Proposed Surface Corridor
- BLM Designated Surface Corridor

IMPACT LEVELS

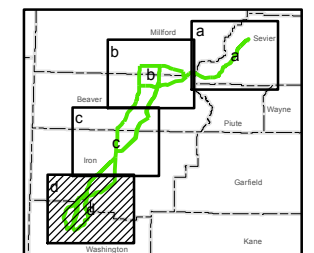
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
Millard Wind Farm: CH2MHILL, 2011
WVEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County
RMP Utility Corridor: BLM, EPG, 2009; Washington County Utility Corridor, Washington County, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RTA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1998; POWERmap, powermap.platts.com
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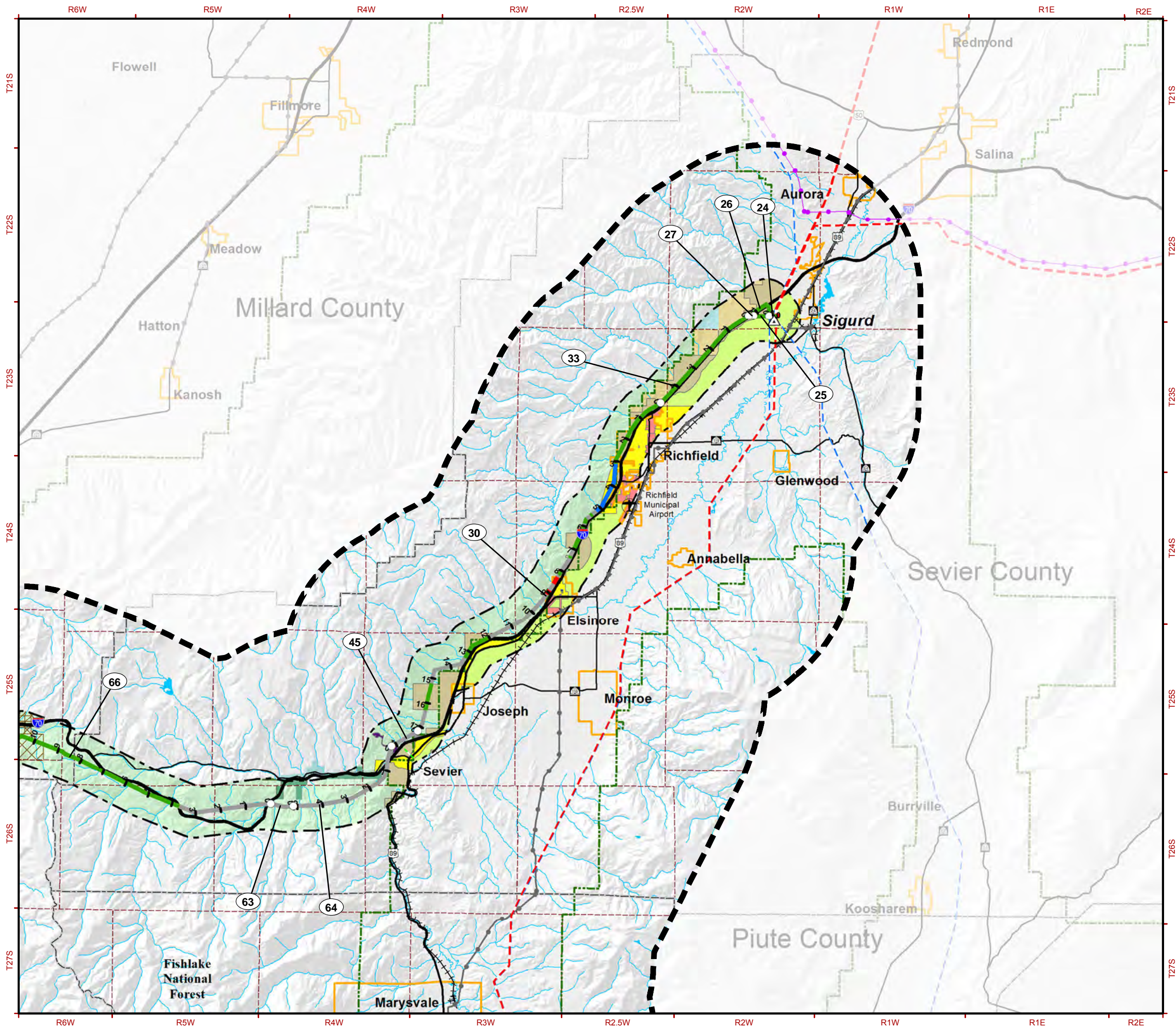


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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT





MAP MV – 15a
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

PLANNED LAND USE

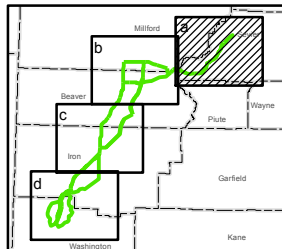
- Planned Pipeline
- Planned Transmission Line
- Geothermal Lease Area
- Mineral Mountains ACEC
- Nomination (Digitized from map provided by SUWA)
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Mineral Mountains ACEC Nomination: SUWA, 2011 (Digitized from map provided with comments on the Draft EIS from SUWA); Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010;
Oil and Gas Leases: BLM, 2010; Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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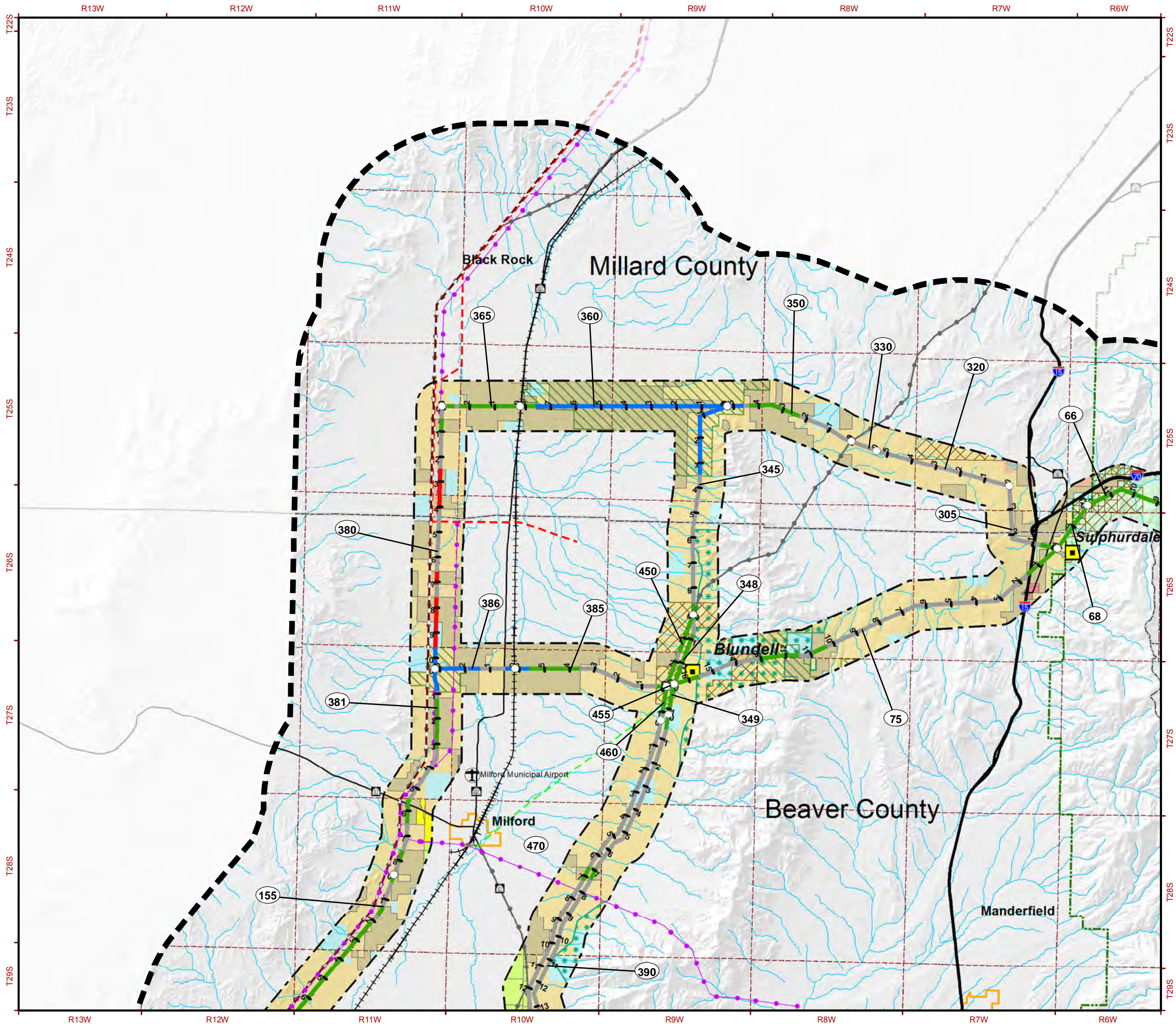
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Miles

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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 15b
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Geothermal Lease Area
- Mineral Mountains ACEC
- Nomination (Digitized from map provided by SUWA)
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

JURISDICTION

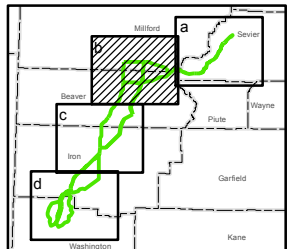
- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Study Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Municipal Boundary
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir
- SOURCES:**
Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Mineral Mountains ACEC Nomination: SUWA, 2011 (Digitized from map provided with comments on the Draft EIS from SUWA); Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010;
Oil and Gas Leases: BLM, 2010; Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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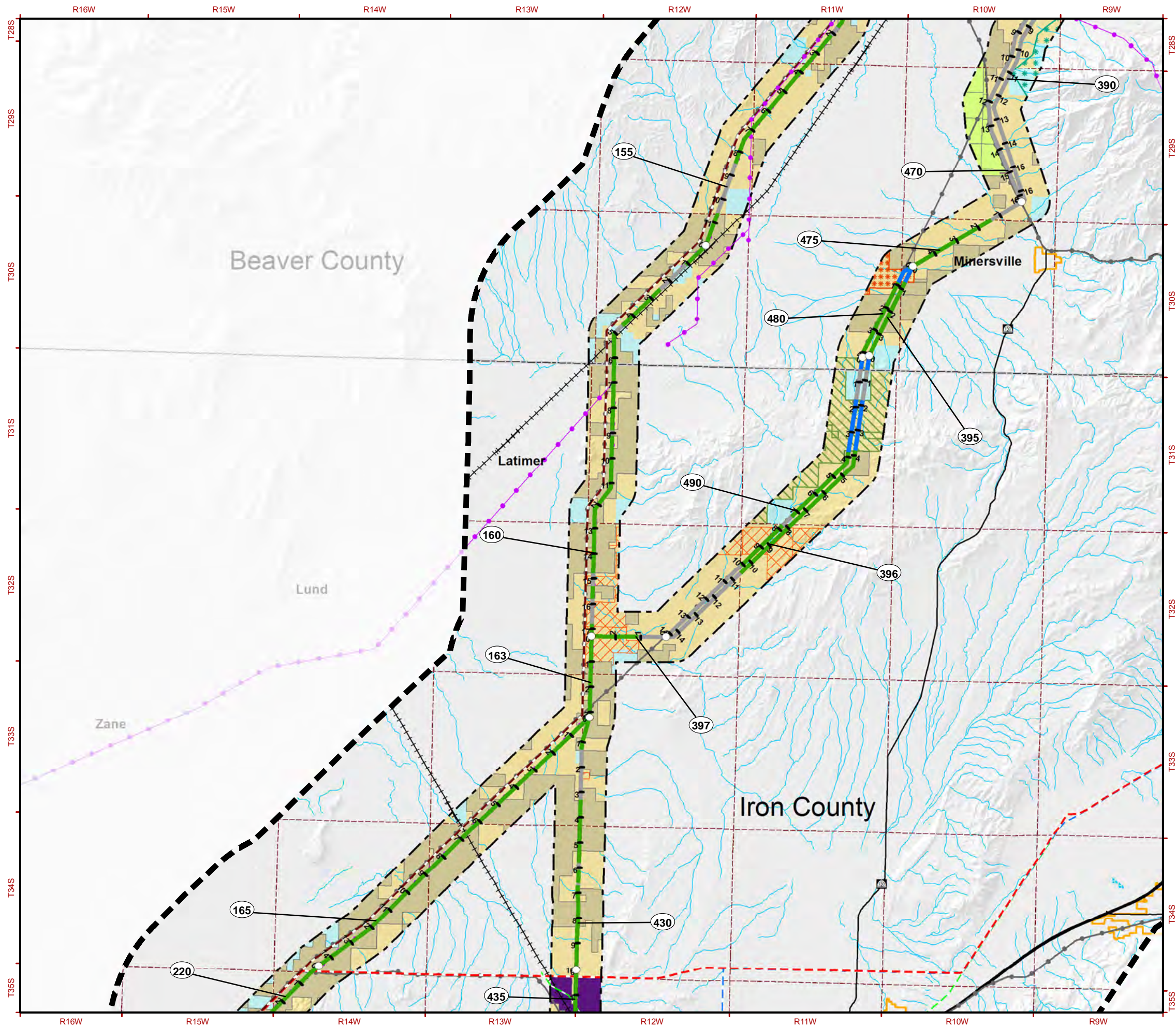


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 15c
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

PLANNED LAND USE

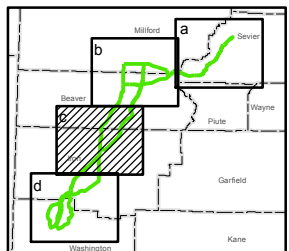
- Planned Pipeline
- Planned Transmission Line
- Geothermal Lease Area
- Mineral Mountains ACEC
- Nomination (Digitized from map provided by SUWA)
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

GENERAL REFERENCE FEATURES

- Project Study Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Mineral Mountains ACEC Nomination: SUWA, 2011 (Digitized from map provided with comments on the Draft EIS from SUWA); Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010;
Oil and Gas Leases: BLM, 2010; Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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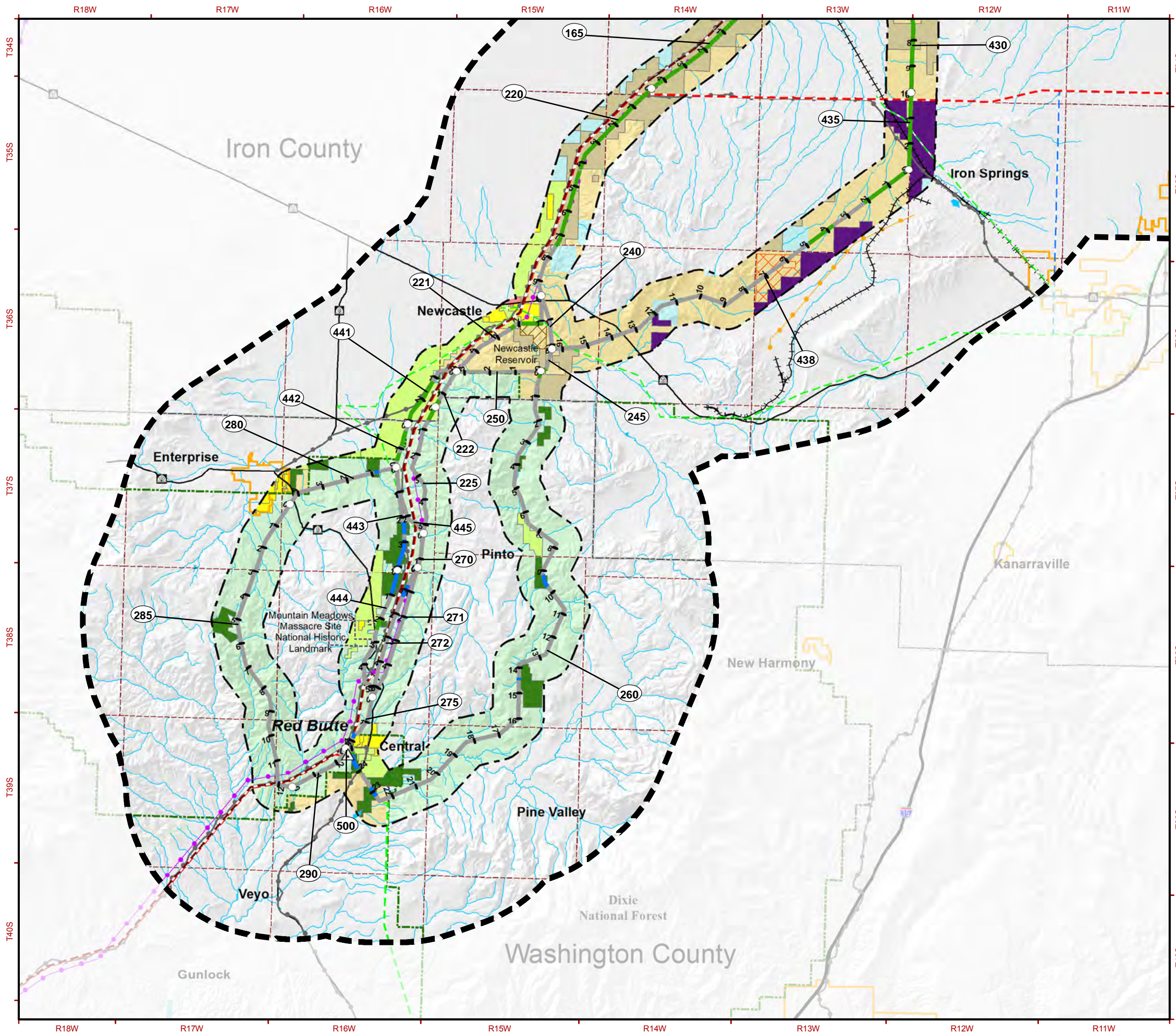
0 1.25 2.5 5 7.5 10
Miles

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345kV TRANSMISSION PROJECT





MAP MV - 15d FUTURE LAND USE INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

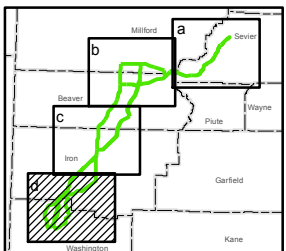
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Geothermal Lease Area
- Mineral Mountains ACEC
- Nomination (Digitized from map provided by SUWA)
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

GENERAL REFERENCE FEATURES

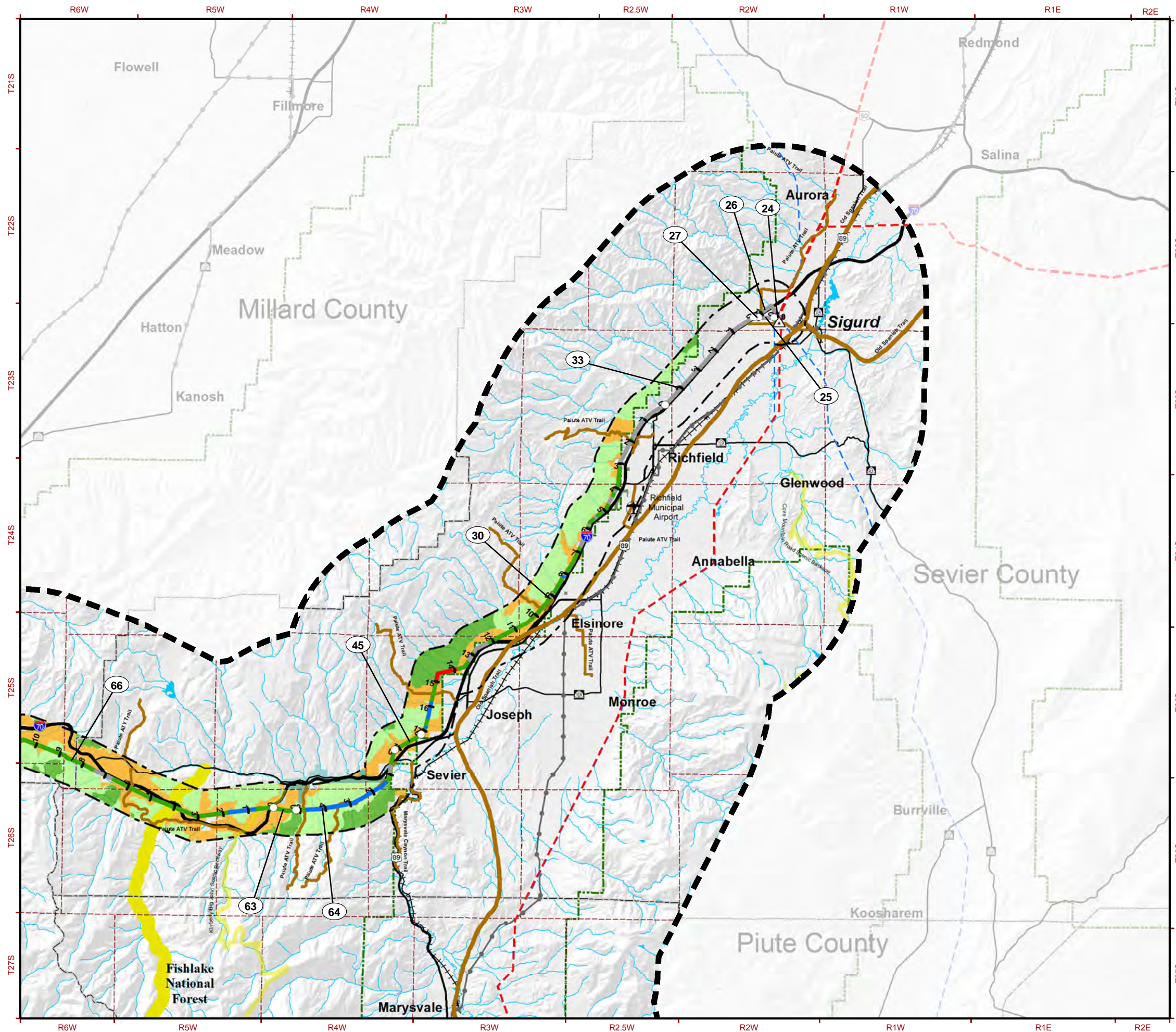
- Project Study Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Municipal Boundary
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir
- SOURCES:**
Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Mineral Mountains ACEC Nomination: SUWA, 2011 (Digitized from map provided with comments on the Draft EIS from SUWA); Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010;
Oil and Gas Leases: BLM, 2010; Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV – 16a
RECREATION RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

Parks/Preservation

SPECIAL MANAGEMENT AREAS

State Park or Recreation Area

Fishcreek Wild and Scenic River

RECREATION
OPPORTUNITY SPECTRUM

Semi-Primitive Non-Motorized

Semi-Primitive Motorized

Roaded Natural

RECREATION TRAILS

Trails

SCENIC BYWAYS & BACKWAYS

Scenic Backway

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

SOURCES:

Resource Data:

Impact: EPG, 2010

Recreation Trail: EPG, 2010

Scenic Byway: ESRI, 2008

Existing Land Use: EPG, 2010

Recreation Opportunity Spectrum: USFS, 2006

Fishcreek Wild and Scenic River: USFS, 2011; Special Management Areas: EPG, 2009

National Inventoried Roadless Area: USFS, 2000

Base Data:

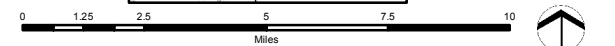
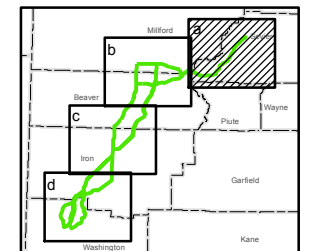
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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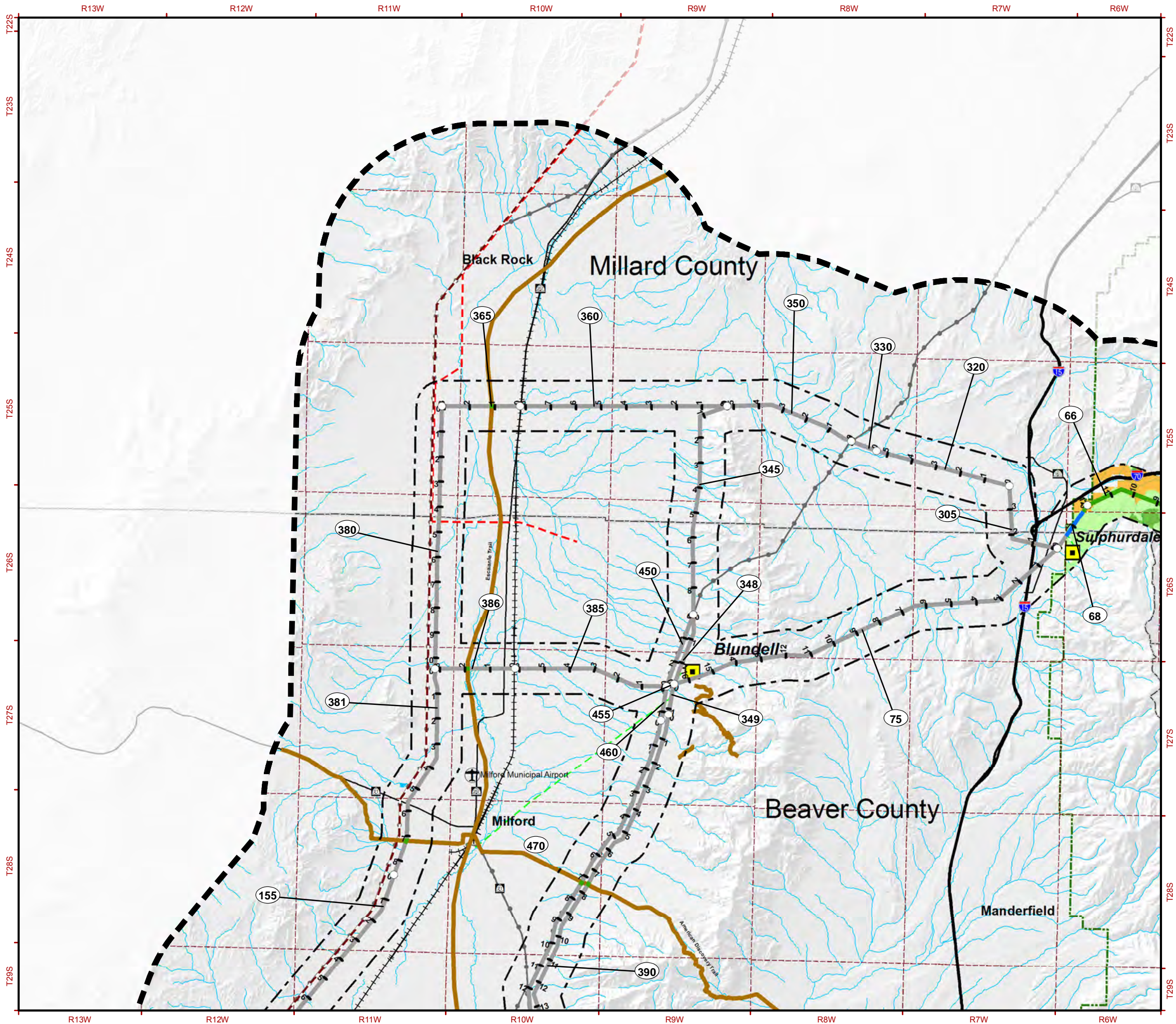


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV – 16b
RECREATION RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

Parks/Preservation

SPECIAL MANAGEMENT AREAS

State Park or Recreation Area

Fishcreek Wild and Scenic River

RECREATION

OPPORTUNITY SPECTRUM

Semi-Primitive Non-Motorized

Semi-Primitive Motorized

Roaded Natural

RECREATION TRAILS

Trails

SCENIC BYWAYS & BACKWAYS

Scenic Backway

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

SOURCES:

Resource Data:

Impact: EPG, 2010

Recreation Trail: EPG, 2010

Scenic Byway: ESRI, 2008

Existing Land Use: EPG, 2010

Recreation Opportunity Spectrum: USFS, 2006

Fishcreek Wild and Scenic River: USFS, 2011; Special Management Areas: EPG, 2009

National Inventoried Roadless Area: USFS, 2000

Base Data:

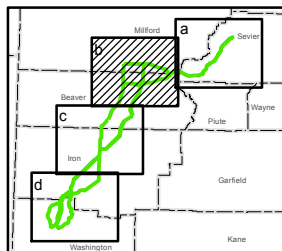
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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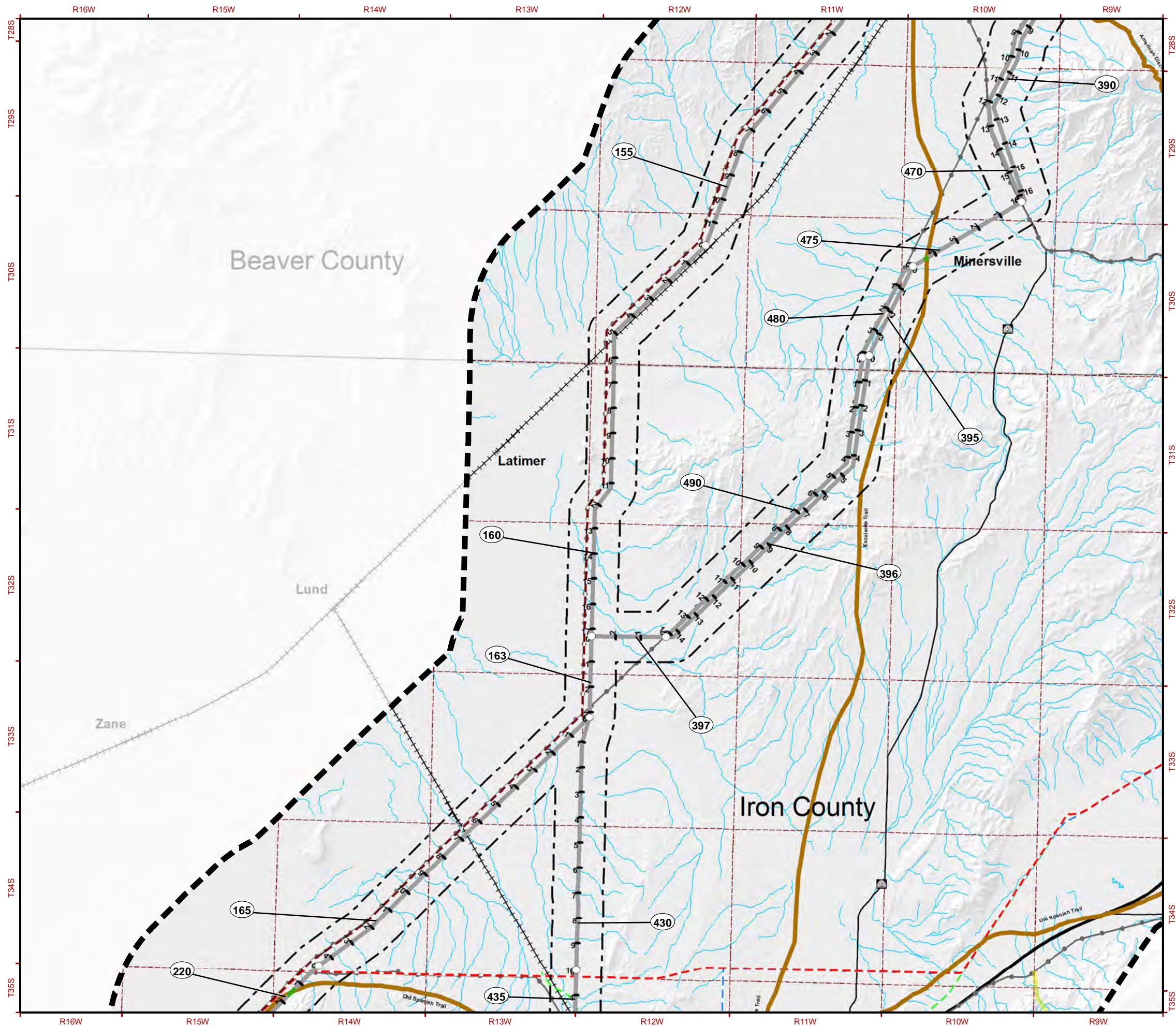
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345kV TRANSMISSION PROJECT



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MAP MV – 16c RECREATION RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

Parks/Preservation

SPECIAL MANAGEMENT AREAS

State Park or Recreation Area

Fishcreek Wild and Scenic River

RECREATION OPPORTUNITY SPECTRUM

Semi-Primitive Non-Motorized

Semi-Primitive Motorized

Roaded Natural

RECREATION TRAILS

Trails

SCENIC BYWAYS & BACKWAYS

Scenic Backway

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

SOURCES:

Resource Data:

Impact: EPG, 2010

Recreation Trail: EPG, 2010

Scenic Byway: ESRI, 2008

Existing Land Use: EPG, 2010

Recreation Opportunity Spectrum: USFS, 2006

Fishcreek Wild and Scenic River: USFS, 2011; Special Management Areas: EPG, 2009

National Inventoried Roadless Area: USFS, 2000

Base Data:

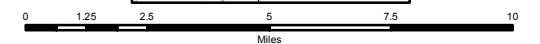
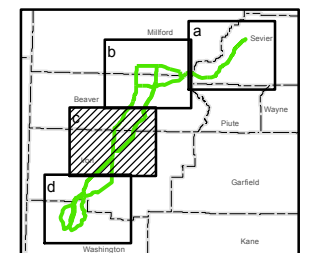
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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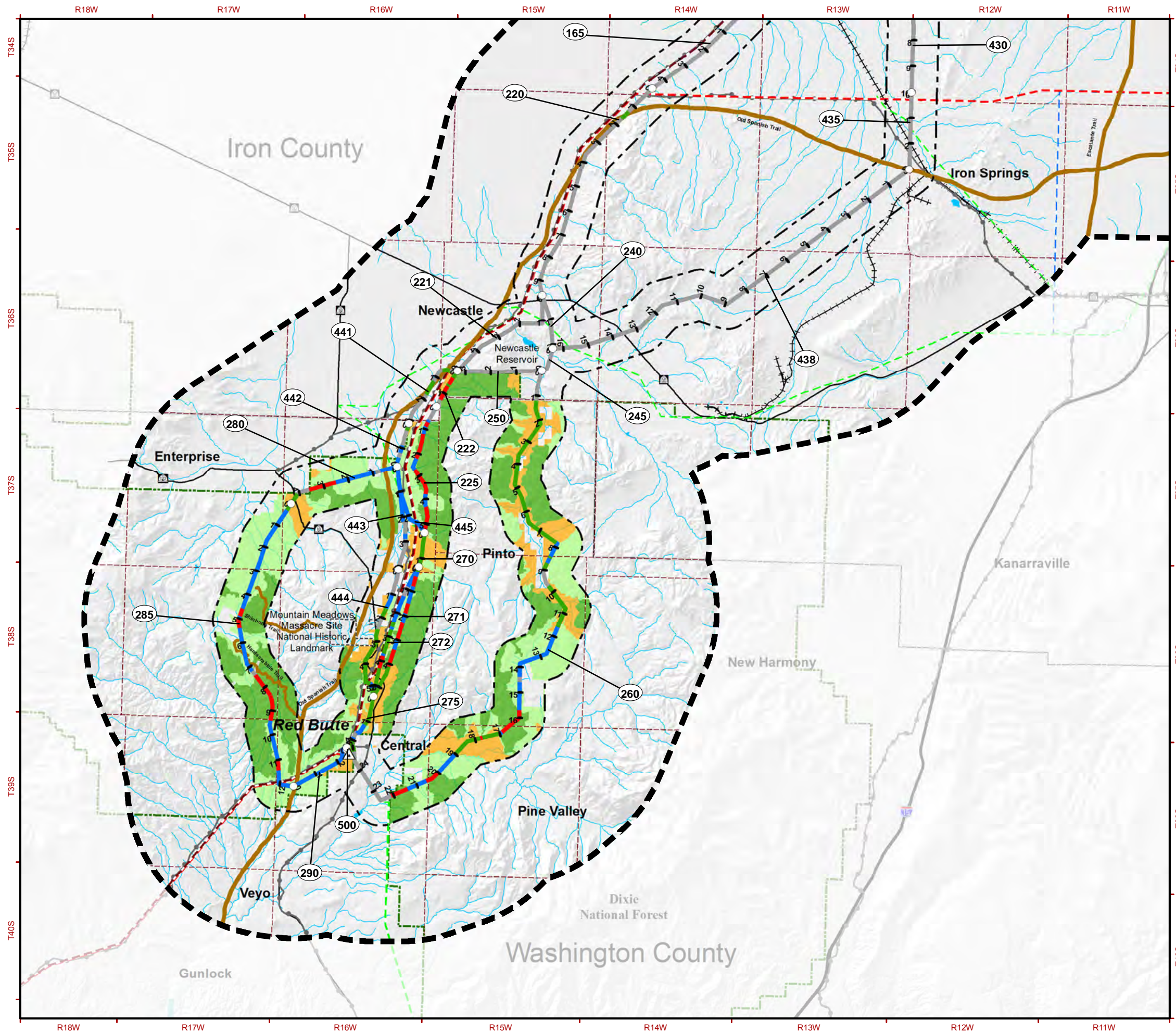
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SIGURD TO RED BUTTE NO. 2 345kV TRANSMISSION PROJECT



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MAP MV – 16d RECREATION RESOURCES INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

Parks/Preservation

SPECIAL MANAGEMENT AREAS

State Park or Recreation Area

Fishcreek Wild and Scenic River

RECREATION OPPORTUNITY SPECTRUM

Semi-Primitive Non-Motorized

Semi-Primitive Motorized

Roaded Natural

RECREATION TRAILS

Trails

SCENIC BYWAYS & BACKWAYS

Scenic Backway

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

Project Study Area

Study Corridor

Link Number

Mile Tick

Centerline

Link Node

Power Plant

Substation

500kV +/- DC Transmission Line

345kV Transmission Line

230 to 287kV Transmission Line

138 to 161kV Transmission Line

Pipeline

County Boundary

U.S. Forest Service Boundary

Township Line

Interstate Highway

U.S. Highway

State Highway

Railroad

Airport

River or Stream

Lake or Reservoir

SOURCES:

Resource Data:

Impact: EPG, 2010

Recreation Trail: EPG, 2010

Scenic Byway: ESRI, 2008

Existing Land Use: EPG, 2010

Recreation Opportunity Spectrum: USFS, 2006

Fishcreek Wild and Scenic River: USFS, 2011; Special Management Areas: EPG, 2009

National Inventoried Roadless Area: USFS, 2000

Base Data:

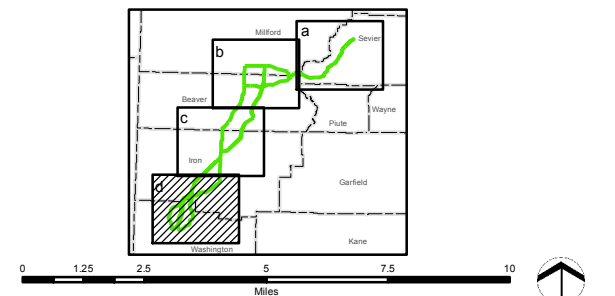
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008

U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation

Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008

Hillshade: USGS, 1999; POWERmap, powermap.platts.com

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